

## Rabbit EGR2 Polyclonal Antibody | anti-EGR2 antibody

Anti-EGR2 Antibody Picoband

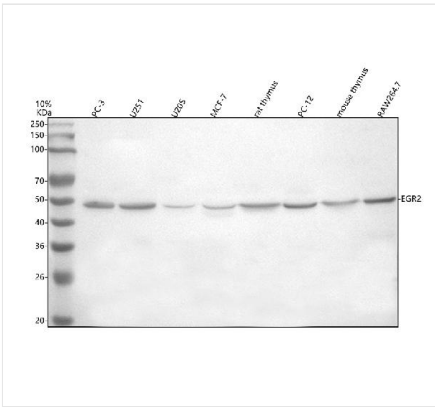
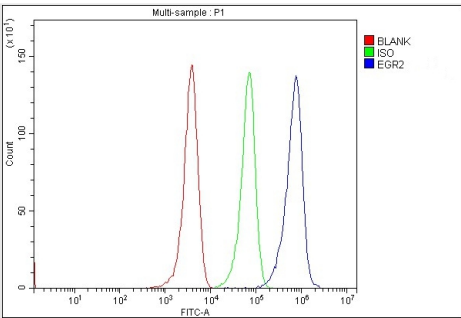
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA127019 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

EGR2; Polyclonal Antibody; Anti-EGR2 Antibody Picoband; anti-EGR2 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                     |
| Clonality                                      | Polyclonal                                                                                                                                                                                                            |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                    | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-EGR2 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                   |
| Immunogen                                      | E coli-derived human EGR2 recombinant protein (Position: M1-R257). Human EGR2 shares 90.7% amino acid (aa) sequence identity with both mouse and rat EGR2.                                                            |
| Reconstitution                                 | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Preparation and Storage                        | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of MCF-7 cells using anti-EGR2 antibody (AAA127019).Overlay histogram showing MCF-7 cells stained with AAA127019 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-EGR2 Antibody (AAA127019, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

WB (Western Blot)

Figure 1. Western blot analysis of EGR2 using anti-EGR2 antibody (AAA127019).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human PC-3 whole cell lysates,Lane 2: human U251 whole cell lysates,Lane 3: human U20S whole cell lysates,Lane 4: human MCF-7 whole cell lysates,Lane 5: rat thymus tissue lysates,Lane 6: rat PC-12 whole cell lysates,Lane 7: mouse thymus tissue lysates,Lane 8: mouse Raw264.7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-EGR2 antigen affinity purified polyclonal antibody (#AAA127019) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for EGR2 at approximately 50 kDa. The expected band size for EGR2 is at 50,45 kDa.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-EGR2 antibody | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product Categories/Family for anti-EGR2 antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| References                                         | 1. Boerkoel, C. F., Takashima, H., Bacino, C. A., Daentl, D., Lupski, J. R. EGR2 mutation R359W causes a spectrum of Dejerine-Sottas neuropathy. Neurogenetics 3: 153-157, 2001. 2. Chavrier, P., Janssen-Timmen, U., Mattei, M.-G., Zerial, M., Bravo, R., Charnay, P. Structure, chromosome location, and expression of the mouse zinc finger gene Krox-20: multiple gene products and coregulation with the proto-oncogene c-fos. Molec. Cell. Biol. 9: 787-797, 1989.3. Chung, K. W., Sunwoo, I. N., Kim, S. M., Park, K. D., Kim, W.-K., Kim, T. S., Koo, H., Cho, M., Lee, J., Choi, B. O. Two missense mutations of EGR2 R359W and GJB1 V136A in a Charcot-Marie-Tooth disease family. Neurogenetics 6: 159-163, 2005. |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 33112654                                       |
| NCBI GeneID                      | 1959                                           |
| UniProt Accession #              | P11161; Q68CZ5; Q8IV26; Q9UNA6; B2R724; B3KRD7 |
| Molecular Weight                 | 50,302 Da                                      |
| NCBI Official Full Name          | E3 SUMO-protein ligase EGR2                    |
| NCBI Official Synonym Full Names | early growth response 2                        |
| NCBI Official Symbol             | EGR2                                           |

|                                      |                                                                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI Official Synonym Symbols</b> | AT591; CMT1D; CMT4E; KROX20                                                                                                                       |
| <b>NCBI Protein Information</b>      | E3 SUMO-protein ligase EGR2; zinc finger protein Krox-20; early growth response protein 2; KROX-20, Drosophila, homolog (early growth response-2) |
| <b>UniProt Protein Name</b>          | E3 SUMO-protein ligase EGR2                                                                                                                       |
| <b>UniProt Gene Name</b>             | <b>EGR2</b>                                                                                                                                       |
| <b>UniProt Synonym Gene Names</b>    | KROX20; EGR-2                                                                                                                                     |
| <b>UniProt Entry Name</b>            | EGR2_HUMAN                                                                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/egr2-antibody-flow-cytometry-western-blot-elisa/127019>