

## Mouse anti-Human HER2/neu Monoclonal Antibody | anti-HER2/neu antibody

Anti-HER2/neu [SER4], Mouse IgG1, Kappa

|                              |                      |                            |                              |
|------------------------------|----------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA72048</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|----------------------|----------------------------|------------------------------|

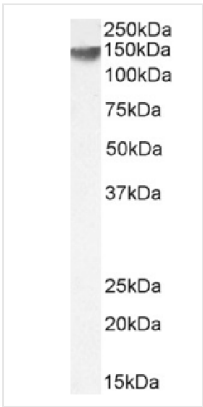
### PRODUCT SYNONYMS

HER2/neu; Monoclonal Antibody; Anti-HER2/neu [SER4]; Mouse IgG1; Kappa; ERBB2; Receptor tyrosine-protein kinase erbB-2; human epidermal growth factor receptor 2; anti-HER2/neu antibody

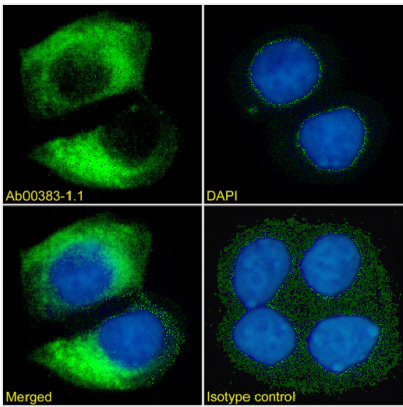
### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                |
|----------------------------------------------------|------------------------------------------------------------------------------------------------|
| Host                                               | Mouse                                                                                          |
| Reactivity                                         | Human                                                                                          |
| Clonality                                          | Monoclonal                                                                                     |
| Isotype                                            | Mouse IgG1, Kappa                                                                              |
| Clone Number                                       | SER4                                                                                           |
| Specificity                                        | The antibody binds specifically to the extracellular domain of human ErbB-2.                   |
| Purity/Purification                                | Protein A affinity purified                                                                    |
| Form/Format                                        | PBS with 0.02% Proclin 300                                                                     |
| Concentration                                      | 1mg/ml (varies by lot)                                                                         |
| Applicable Applications for anti-HER2/neu antibody | ELISA                                                                                          |
| Antibody Type                                      | Recombinant Antibody                                                                           |
| Immunogen                                          | Recombinant HER2/neu.                                                                          |
| Preparation and Storage                            | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C. |

IMAGES



**WB (Western Blot)**  
Western Blot using anti-HER2/neu antibody SER4 at 2ug/ml before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



**IF (Immunofluorescence)**  
Immunofluorescence staining of MCF7 cells using anti-HER2/neu antibody at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom, DAPI, merged channels and an isotype control. The isotype control was stained with anti-unknown antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-HER2/neu antibody | Describes the generation of the SER4-monoclonal antibody and how the antibody inhibits cell growth in vitro. Recombinant monoclonal antibody to HER2/neu. Manufactured using our Recombinant Platform with variable regions (i.e. specificity) from the hybridoma SER4. |
| Product Categories/Family for anti-HER2/neu antibody   | Cancer; Cell signalling                                                                                                                                                                                                                                                 |
| References                                             | Itoh et al.; Journal of Biochemistry 2003; 133(2):239-245                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 54792098                                                                                                                                                                                                                                                        |
| NCBI GeneID                      | 2064                                                                                                                                                                                                                                                            |
| NCBI Accession #                 | NP_001005862.1                                                                                                                                                                                                                                                  |
| NCBI GenBank Nucleotide #        | NM_001005862.1                                                                                                                                                                                                                                                  |
| UniProt Accession #              | P04626; Q14256; Q6LDV1; Q9UMK4; B2RZG3; B4DHN3                                                                                                                                                                                                                  |
| Molecular Weight                 | 137,910 Da                                                                                                                                                                                                                                                      |
| NCBI Official Full Name          | receptor tyrosine-protein kinase erbB-2 isoform b                                                                                                                                                                                                               |
| NCBI Official Synonym Full Names | v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)                                                                                                                                                  |
| NCBI Official Symbol             | ERBB2                                                                                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu                                                                                                                                                                                                           |
| NCBI Protein Information         | receptor tyrosine-protein kinase erbB-2; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 19 protein; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastoma derived on |
| UniProt Protein Name             | Receptor tyrosine-protein kinase erbB-2                                                                                                                                                                                                                         |
| UniProt Gene Name                | ERBB2                                                                                                                                                                                                                                                           |
| UniProt Synonym Gene Names       | HER2; MLN19; NEU; NGL; MLN 19                                                                                                                                                                                                                                   |
| UniProt Entry Name               | ERBB2_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/monoclonal/her2-neu-antibody-clone-ser4-elisa/72048>