

## Rabbit SIM1 Polyclonal Antibody | anti-SIM1 antibody

SIM1 Antibody (N-term)

| CATALOG # | HOST   | REACTIVITY                                      | APPLICATIONS                              |
|-----------|--------|-------------------------------------------------|-------------------------------------------|
| AAA289942 | Rabbit | Human (Predicted Reactivity: Mouse, Drosophila) | Western Blot, Immunohistochemistry, ELISA |

### PRODUCT SYNONYMS

SIM1; Polyclonal Antibody; SIM1 Antibody (N-term); Single-minded homolog 1; Class E basic helix-loop-helix protein 14; bHLHe14; BHLHE14; anti-SIM1 antibody

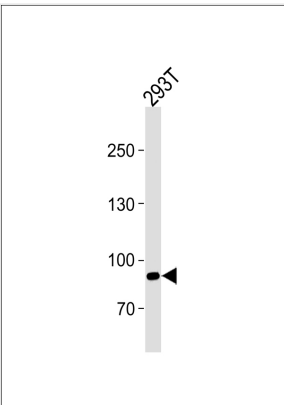
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                       |
| Reactivity                                     | Human (Predicted Reactivity: Mouse, Drosophila)                                                                                                                              |
| Clonality                                      | Polyclonal                                                                                                                                                                   |
| Isotype                                        | Rabbit Ig                                                                                                                                                                    |
| Specificity                                    | This SIM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SIM1.            |
| Purity/Purification                            | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                  | Vial Concentration: 0.5 (varies by lot)                                                                                                                                      |
| Sequence Positions                             | 1-30                                                                                                                                                                         |
| Sequence Length                                | 766                                                                                                                                                                          |
| Applicable Applications for anti-SIM1 antibody | WB (Western Blot), IHC (Immunohistochemistry), ELISA                                                                                                                         |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                            |
| Crown Antibody                                 | Yes                                                                                                                                                                          |
| Antigen Source                                 | HUMAN                                                                                                                                                                        |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |

IMAGES



**IHC (Immunohiostchemistry)**  
SIM1 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SIM1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



**WB (Western Blot)**  
Western blot analysis of lysate from 293T cell line, using SIM1 Antibody (N-term). AAA289942 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SIM1 antibody | SIM1 and SIM2 genes are Drosophila single-minded (sim) gene homologs. SIM1 transcript was detected only in fetal kidney out of various adult and fetal tissues tested. Since the sim gene plays an important role in Drosophila development and has peak levels of expression during the period of neurogenesis,it was proposed that the human SIM gene is a candidate for involvement in certain dysmorphic features (particularly the facial and skull characteristics), abnormalities of brain development, and/or mental retardation of Down syndrome. |
| Product Categories/Family for anti-SIM1 antibody   | Crown Antibodies; Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| References                                         | Ghoussaini, M., et al. Obesity (Silver Spring) 18(8):1670-1675(2010)<br>Tolson, K.P., et al. J. Neurosci. 30(10):3803-3812(2010)<br>Traurig, M., et al. Diabetes 58(7):1682-1689(2009)<br>Gregorio, S.P., et al. Psychiatry Res 165 (1-2), 1-9 (2009) :<br>Hung, C.C., et al. Int J Obes (Lond) 31(3):429-434(2007)                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| NCBI GI #                        | 21614542                                         |
| NCBI GeneID                      | 6492                                             |
| NCBI Accession #                 | NP_005059.2                                      |
| NCBI GenBank Nucleotide #        | NM_005068.2                                      |
| UniProt Accession #              | P81133; Q5TDP7                                   |
| Molecular Weight                 | 85515                                            |
| NCBI Official Full Name          | single-minded homolog 1                          |
| NCBI Official Synonym Full Names | single-minded family bHLH transcription factor 1 |
| NCBI Official Symbol             | SIM1                                             |
| NCBI Official Synonym Symbols    | bHLHe14                                          |
| NCBI Protein Information         | single-minded homolog 1                          |

|                            |                         |
|----------------------------|-------------------------|
| UniProt Protein Name       | Single-minded homolog 1 |
| UniProt Gene Name          | <b>SIM1</b>             |
| UniProt Synonym Gene Names | BHLHE14; bHLHe14        |
| UniProt Entry Name         | SIM1_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/sim1-antibody-western-blot-immunohistochemistry-elisa/289942>