

## BACE2 recombinant antibody

Anti-BACE2 [1/ 9 ]

|                              |                            |                                                           |
|------------------------------|----------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA71996</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|------------------------------|----------------------------|-----------------------------------------------------------|

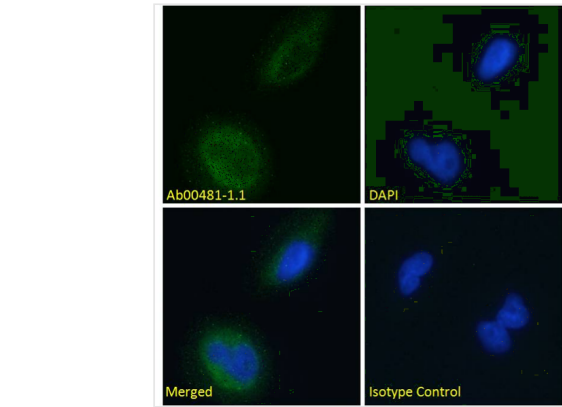
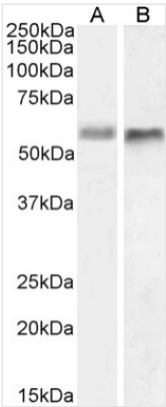
### PRODUCT SYNONYMS

BACE2; Monoclonal Recombinant Antibody; Anti-BACE2 [1/ 9 ]; Beta-secretase 2; Aspartic-like protease; Aspartyl protease 1; Asp1; Beta-site amyloid precursor protein cleaving enzyme 2; Down syndrome aspartic protease; DRAP; Memapsin-1; Membrane-associated aspartic protease 1; theta-secretase; BACE2 recombinant antibody

### PRODUCT SPECIFICATIONS

|                                                        |                                                                                                                                                                                          |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                             | Human                                                                                                                                                                                    |
| Clonality                                              | Monoclonal                                                                                                                                                                               |
| Isotype                                                | Mouse IgG1, Kappa                                                                                                                                                                        |
| Clone Number                                           | 1/ 9                                                                                                                                                                                     |
| Purity/Purification                                    | Protein A Affinity Purified                                                                                                                                                              |
| Concentration                                          | 1 mg/ml (varies by lot)                                                                                                                                                                  |
| Sequence Length                                        | 518                                                                                                                                                                                      |
| Applicable Applications for BACE2 recombinant antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                            |
| Immunogen                                              | Human BACE2 244-333.                                                                                                                                                                     |
| Buffer Composition                                     | PBS only with 0.02% Proclin 300.                                                                                                                                                         |
| Chimeric Use Statement                                 | This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques. |
| Labeled Substance                                      | None                                                                                                                                                                                     |
| Preparation and Storage                                | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.                                                                                           |

IMAGES



**IF (Immunofluorescence)**  
Immunofluorescence staining of fixed U251 cells with anti-BACE2 antibody 1/9 (Ab00481)  
Immunofluorescence analysis of paraformaldehyde fixed U251 cells permeabilized with 0.15% Triton and stained with the chimeric mouse IgG1 version of 1/9 (Ab00481-1.1) at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom Ab00481-1.1, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-unknown specificity antibody (Ab178-1.1) followed by Alexa Fluor® 488 secondary antibody.

**WB (Western Blot)**  
Western Blot using anti-BACE2 antibody 1/9 (Ab00481) HeLa (A) and U251 (B) cell lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric mouse IgG1 version of 1/9 (Ab00481-1.1) at 1 ug/ml before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The predicted running size for BACE2 is 56.2 kDa. Ab00481-1.1 successfully detected BACE2 in HeLa and U251 cell lysate samples.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for BACE2 recombinant antibody | Recombinant monoclonal antibody to BACE2. Manufactured using a proprietary Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 1/ 9. Human BACE2 244-333.                                                                                                                                                                                                                                                                                                |
| Product Categories/Family for BACE2 recombinant antibody   | <a href="#">Amyloid beta</a> ; <a href="#">Alzheimer's Disease</a> ; <a href="#">Down's Syndrome</a> ; <a href="#">Diabetes</a>                                                                                                                                                                                                                                                                                                                                                       |
| References                                                 | Banner DW, Gsell B, Benz J, Bertschinger J, Burger D, Brack S, Cuppuleri S, Debulpaep M, Gast A, Grabulovski D, Hennig M, Hilpert H, Huber W, Kuglstatter A, Kuszniir E, Laeremans T, Matile H, Miscenic C, Rufer AC, Schlatter D, Steyaert J, Stihle M, Thoma R. Mapping the conformational space accessible to BACE2 using surface mutants and cocrystals with Fab fragments, Fynomers and Xaperones. Acta Crystallogr D Biol Crystallogr. 2013 Jun; 69(Pt 6):1124-37 PMID:23695257 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 19923395                                                       |
| NCBI GeneID                      | 25825                                                          |
| NCBI Accession #                 | NP_036237.2                                                    |
| NCBI GenBank Nucleotide #        | NM_012105.5                                                    |
| UniProt Accession #              | Q9Y5Z0; Q5DIH8; Q8N2D4; Q9H2V8; Q9NZL1; Q9NZL2; Q9UJT6; A8K7P1 |
| Molecular Weight                 | 50,325 Da                                                      |
| NCBI Official Full Name          | beta-secretase 2 isoform A preproprotein                       |
| NCBI Official Synonym Full Names | beta-secretase 2                                               |
| NCBI Official Symbol             | BACE2                                                          |
| NCBI Official Synonym Symbols    | ASP1; BAE2; DRAP; AEPLC; ALP56; ASP21; CDA13; CEAP1            |
| NCBI Protein Information         | beta-secretase 2                                               |
| UniProt Protein Name             | Beta-secretase 2                                               |
| UniProt Gene Name                | BACE2                                                          |

**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://stage.aaabiotech.com/monoclonal/bace2-recombinant-antibody-clone-1-9-immunohistochemistry-western-blot-elisa/71996>