

## Rabbit IDH3B Polyclonal Antibody | anti-IDH3B antibody

Anti-IDH3B Antibody Picoband

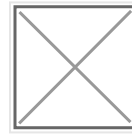
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                                     |
|-----------|--------|-------------------|--------------------------------------------------------------------------------------------------|
| AAA19926  | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Immunoprecipitation, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

IDH3B; Polyclonal Antibody; Anti-IDH3B Antibody Picoband; anti-IDH3B 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-IDH3B antibody | ELISA, FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                             |
| Application Notes                               | WB: 0.1-0.25ug/ml, Human, Mouse, Rat<br>IHC: 2-5ug/ml, Human<br>FC/FACS (Fixed): 1-3ug/1x10 <sup>6</sup> cells, Human<br>IP: 0.5-2ug/ml, Human<br>ELISA: 0.1-0.5ug/ml                                                 |
| Immunogen                                       | E coli-derived human IDH3B recombinant protein (Position: A32-D362). Human IDH3B shares 97% amino acid (aa) sequence identity with rat IDH3B.                                                                         |
| 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. |



### IHC (Immunohistochemistry)

Figure 5. IHC analysis of IDH3B using anti-IDH3B antibody (AAA19926). IDH3B was detected in a paraffin-embedded section of follicles of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-IDH3B Antibody (AAA19926) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit ( epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-IDH3B Antibody (AAA19926) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit ( epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-IDH3B Antibody (AAA19926) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit ( epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-IDH3B Antibody (AAA19926) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit ( Lane 2: human Jurkat whole cell lysates, Lane 3: human RT4 whole cell lysates, Lane 4: human U251 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat heart tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse heart tissue 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-IDH3B antigen affinity purified polyclonal antibody (#AAA19926) at 0.25ug/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 IDH3B at approximately 42 kDa. The expected band size for IDH3B is 42 kDa.

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|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-IDH3B antibody</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Categories/Family for anti-IDH3B antibody</b>   | <a href="#">Primary Antibodies</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>References</b>                                          | <p>1. Hartong, D. T., Dange, M., McGee, T. L., Berson, E. L., Dryja, T. P., Colman, R. F. Insights from retinitis pigmentosa into the roles of isocitrate dehydrogenases in the Krebs cycle. <i>Nature Genet.</i> 40: 1230-1234, 2008.</p> <p>2. Kim, Y.-O., Park, S.-H., Kang, Y.-J., Koh, H.-J., Kim, S.-H., Park, S.-Y., Sohn, U., Huh, T.-L. Assignment of mitochondrial NAD(+)-specific isocitrate dehydrogenase beta subunit gene (IDH3B) to human chromosome band 20p13 by in situ hybridization and radiation hybrid mapping. <i>Cytogenet. Cell Genet.</i> 86: 240-241, 1999.</p> <p>3. Zenteno, J. C., Garcia-Montano, L. A., Cruz-Aguilar, M., Ronquillo, J., Rodas-Serrano, A., Aguilar-Castul, L., Matsui, R., Vencedor-Meraz, C. I., Arce-Gonzalez, R., Graue-Wiechers, F., Gutierrez-Paz, M., Urrea-Victoria, T., de Dios Cuadras, U., Chacon-Camacho, O. F. Extensive genic and allelic heterogeneity underlying inherited retinal dystrophies in Mexican patients molecularly analyzed by next-generation sequencing. <i>Molec. Genet. Genomic Med.</i> 8: e1044, 2020. Note: Electronic Article.</p> |

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|------------------|----------------|
| NCBI GI #        | 385648280      |
| NCBI GeneID      | 3420           |
| NCBI Accession # | NP_001245313.1 |

|                                  |                                                                                                                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GenBank Nucleotide #        | <a href="#">NM_001258384.1</a>                                                                                                                                                                                                                                                   |
| UniProt Accession #              | <a href="#">O43837</a> ; <a href="#">O95106</a> ; <a href="#">Q5JXS8</a> ; <a href="#">Q9NQ06</a> ; <a href="#">Q9NQ07</a> ; <a href="#">Q9NUZ0</a> ; <a href="#">Q9UEX0</a> ; <a href="#">Q9UG99</a> ; <a href="#">B2RDR1</a> ; <a href="#">D3DVX2</a> ; <a href="#">D3DVX3</a> |
| Molecular Weight                 | 42,184 Da                                                                                                                                                                                                                                                                        |
| NCBI Official Full Name          | isocitrate dehydrogenase                                                                                                                                                                                                                                                         |
| NCBI Official Synonym Full Names | isocitrate dehydrogenase 3 (NAD+) beta                                                                                                                                                                                                                                           |
| NCBI Official Symbol             | IDH3B                                                                                                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | RP46; H-IDHB                                                                                                                                                                                                                                                                     |
| NCBI Protein Information         | isocitrate dehydrogenase [NAD] subunit beta, mitochondrial; isocitrate dehydrogenase [NAD] subunit beta, mitochondrial; NAD+-specific ICDH; NAD(+)-specific ICDH subunit beta; isocitric dehydrogenase subunit beta; NAD+-specific isocitrate dehydrogenase bet                  |
| UniProt Protein Name             | Isocitrate dehydrogenase [NAD] subunit beta, mitochondrial                                                                                                                                                                                                                       |
| UniProt Gene Name                | <b>IDH3B</b>                                                                                                                                                                                                                                                                     |
| UniProt Entry Name               | IDH3B_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://stage.aaabiotech.com/polyclonal/idh3b-antibody-flow-cytometry-immunoprecipitation-immunohistochemistry-western-blot-elisa/19926>