

## Product datasheet for **TA811776AM**

### IDE Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI4E5]

#### Product data:

|                         |                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:           | Primary Antibodies                                                                                                                                                                                                    |
| Clone Name:             | OTI4E5                                                                                                                                                                                                                |
| Applications:           | WB                                                                                                                                                                                                                    |
| Recommended Dilution:   | WB 1:500                                                                                                                                                                                                              |
| Reactivity:             | Human, Rat, Monkey, Mouse                                                                                                                                                                                             |
| Host:                   | Mouse                                                                                                                                                                                                                 |
| Isotype:                | IgG2b                                                                                                                                                                                                                 |
| Clonality:              | Monoclonal                                                                                                                                                                                                            |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 800-1019 of human IDE (NP_004960) produced in E.coli.                                                                                                 |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                  |
| Concentration:          | 0.5 mg/ml                                                                                                                                                                                                             |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                                                                                                             |
| Conjugation:            | Biotin                                                                                                                                                                                                                |
| Storage:                | Store at -20°C as received.                                                                                                                                                                                           |
| Stability:              | Stable for 12 months from date of receipt.                                                                                                                                                                            |
| Predicted Protein Size: | 117.8 kDa                                                                                                                                                                                                             |
| Gene Name:              | insulin degrading enzyme                                                                                                                                                                                              |
| Database Link:          | <a href="#">NP_004960</a><br><a href="#">Entrez Gene 15925 Mouse</a> <a href="#">Entrez Gene 25700 Rat</a> <a href="#">Entrez Gene 698640 Monkey</a> <a href="#">Entrez Gene 3416 Human</a><br><a href="#">P14735</a> |



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**Background:**

This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulin's activity, as well as participating in intercellular peptide signalling by degrading diverse peptides such as glucagon, amylin, bradykinin, and kallidin. The preferential affinity of this enzyme for insulin results in insulin-mediated inhibition of the degradation of other peptides such as beta-amyloid. Deficiencies in this protein's function are associated with Alzheimer's disease and type 2 diabetes mellitus but mutations in this gene have not been shown to be causative for these diseases. This protein localizes primarily to the cytoplasm but in some cell types localizes to the extracellular space, cell membrane, peroxisome, and mitochondrion. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described but have not been experimentally verified. [provided by RefSeq, Sep 2009]

**Synonyms:**

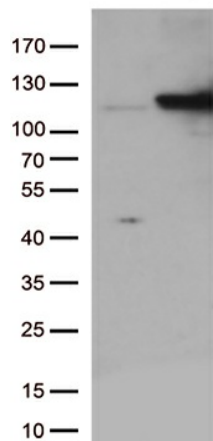
INSULYSIN

**Protein Families:**

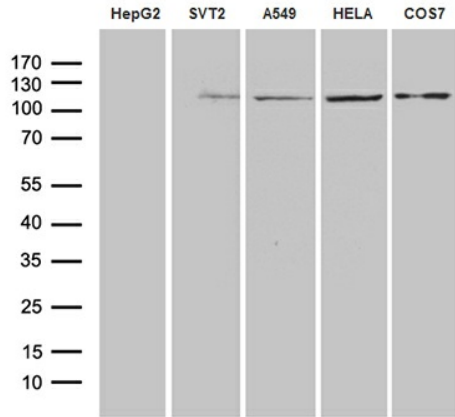
Druggable Genome, Protease

**Protein Pathways:**

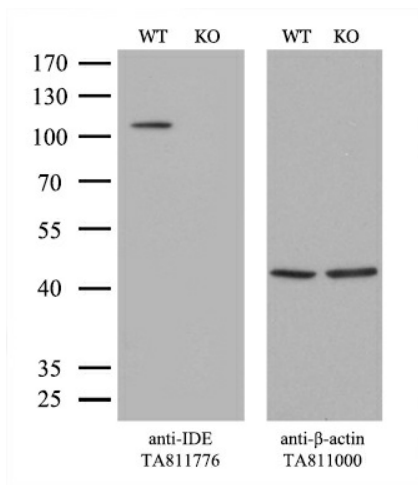
Alzheimer's disease

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IDE (Cat# [RC220700], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IDE (Cat# [TA811776])(1:500).



Western blot analysis of extracts (35ug) from 5 cell lines by using anti-IDE monoclonal antibody (1:500).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and IDE-Knockout HeLa cells (KO, Cat# [LC810111]) were separated by SDS-PAGE and immunoblotted with anti-IDE monoclonal antibody [TA811776]. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:200).