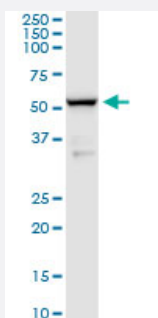


BACE1 monoclonal antibody (M01), clone 2C1

Catalog # H00023621-M01

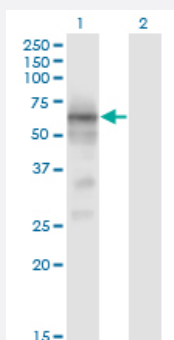
Size 100 ug

Applications



Western Blot (Tissue lysate)

BACE1 monoclonal antibody (M02), clone 2C1. Western Blot analysis of BACE1 expression in rat testis.

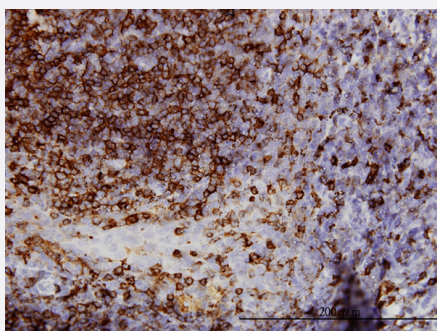


Western Blot (Transfected lysate)

Western Blot analysis of BACE1 expression in transfected 293T cell line by BACE1 monoclonal antibody (M01), clone 2C1.

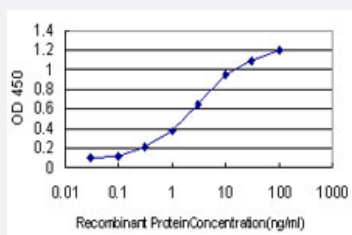
Lane 1: BACE1 transfected lysate(52.9 KDa).

Lane 2: Non-transfected lysate.



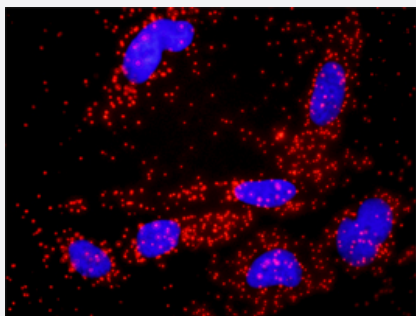
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to BACE1 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



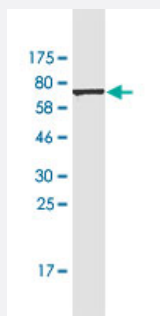
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BACE1 is approximately 0.03ng/ml as a capture antibody.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MMP2 and BACE1. HeLa cells were stained with anti-MMP2 rabbit purified polyclonal 1:1200 and anti-BACE1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (78.54 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant BACE1.
Immunogen	BACE1 (AAH65492, 22 a.a. ~ 501 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	TQHGIRLPLRSGLGAPLGLRLPRETDEEPEEPGRRGSFVEMVDNLRGKSGQGYYVEMTVGSPP QTLNILVDTGSSNFAVGAAPHPFLHRYRQLSSTYRDLRKGVVYPYTQGWEGELGTDLVSIHPG PNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPPDSLEPFDSLKVQTHVPNLFSLQLCGA GFPLNQSEVLASVGGSMIIGGDHSLYTGSLWYTPIRREWYVEIIVRVEINGQDLKMDCKEYNYDKS VDSGTTNLRPLPKKVFEAAVKSIIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEV TNQSFRTILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSA CHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLMVCQWRCLR CLRQQHDDFADDISLLK
Host	Mouse
Reactivity	Human, Rat
Interspecies Antigen Sequence	Mouse (96); Rat (96)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (78.54 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

BACE1 monoclonal antibody (M02), clone 2C1. Western Blot analysis of BACE1 expression in rat testis.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of BACE1 expression in transfected 293T cell line by BACE1 monoclonal antibody (M01), clone 2C1.

Lane 1: BACE1 transfected lysate(52.9 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to BACE1 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BACE1 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- *In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MMP2 and BACE1. HeLa cells were stained with anti-MMP2 rabbit purified polyclonal 1:1200 and anti-BACE1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — BACE1

Entrez GeneID	23621
GeneBank Accession#	BC065492
Protein Accession#	AAH65492
Gene Name	BACE1
Gene Alias	ASP2, BACE, FLJ90568, HSPC104, KIAA1149
Gene Description	beta-site APP-cleaving enzyme 1
Omim ID	604252
Gene Ontology	Hyperlink
Gene Summary	Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimer's disease. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein (APP) by two proteases, one of which is the protein encoded by this gene. The encoded protein, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Four transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq]
Other Designations	APP beta-secretase aspartyl protease 2 beta-secretase beta-site amyloid beta A4 precursor protein-cleaving enzyme beta-site amyloid precursor protein cleaving enzyme memapsin-2 membrane-associated aspartic protease 2 transmembrane aspartic proteinase Asp2

Publication Reference

- [COPS5 \(Jab1\) increases \$\beta\$ -site processing of amyloid precursor protein and amyloid \$\beta\$ peptide generation by stabilizing RanBP9 protein levels.](#)

Hongjie Wang, Debleena Dey, Ivan Carrera, Dmitriy Minond, Elisabetta Bianchi, Shaohua Xu, Madepalli K Lakshmana.

The Journal of Biological Chemistry 2013 Sep; 288(37):26668.

Application: WB-Ce, Human, HEK 293 cells

Disease

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