

Human/Mouse BACE-1 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 137626 Catalog Number: FAB9311S

100 µg

| DESCRIPTION | |
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| Species Reactivity | Human/Mouse |
| Specificity | Detects human and mouse BACE-1 Ectodomain in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) BACE-2, recombinant mouse BACE-2, rhADAM8, rhADAM9, rhADAM10, rhADAM15, or rhTACE is observed. |
| Source | Monoclonal Mouse IgG ₁ Clone # 137626 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human BACE-1 Thr22-Tyr460 Accession # P56817 |
| Conjugate | Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide |
| | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

| APPLICATIONS | | | |
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| Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. | | | |
| Neutralization | Optimal dilution of this antibody should be experimentally determined. | | |
| Immunoprecipitation | Optimal dilution of this antibody should be experimentally determined. | | |

| PREPARATION AND STORAGE | | |
|-------------------------|---|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. | |
| Stability & Storage | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied | |

BACKGROUND

BACE-1 (beta-site APP cleaving enzyme-1) is an aspartic protease and an integral membrane protein (1, 2). It is the major β secretase, and together with the γ secretase, is responsible for generating the amyloid β peptide (Aβ) from the amyloid precursor protein (APP) (3, 4). Because Aβ is a major component of amyloid plaques, BACE-1 has been implicated in the onset and/or progression of Alzheimer's disease. High levels of BACE-1 activity are sufficient to elicit neurodegeneration and neurological decline in vivo, indicating that inhibiting BACE-1 may block not only Aβ-dependent but also Aβ-independent pathogenic mechanisms (5). In addition to APP, BACE-1 also cleaves APP-like proteins 1 and 2, the cell adhesion protein P-selectin glycoprotein ligand-1 and β-galactoside α2,6-sialyltransferase, implying that BACE-1 may have additional functions involving the ectodomain shedding of membrane proteins (6 - 8).

PRODUCT SPECIFIC NOTICES

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