

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LRRTM3 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant mouse (rm) LRRTM3 and no cross-reactivity with recombinant human LRRTM1, 2, or 4 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 568318
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LRRTM3 Glu31-Lys419 Accession # Q86VH5
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

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.

Immunohistochemistry 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

Human LRRTM3 (leucine-rich repeat transmembrane neuronal 3) is a 63 kDa (predicted) type I transmembrane glycoprotein that is one of four LRRTM family members within the LRR protein superfamily (1). The LRRTM3 cDNA encodes 581 amino acids (aa), including a 389 aa extracellular region that shares 98% aa identity with mouse and rat LRRTM3. Isoform 2 lacks cytoplasmic aa 514-581. LRRTMs in mouse show distinct expression patterns during formation of the central nervous system (CNS) and expression persists in adult brain. LRRTM3 promotes processing of amyloid precursor protein by BACE1, and may be mutated in late-onset Alzheimer's disease.

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