

Anti-ITM2B Polyclonal Antibody

Product Details

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| Ig Type: | IgG |
| Reactivity: | Rat (predicted:Human,Mouse) |
| Molecular Weight: | Theoretical: 30 kDa. |
| Purification: | Protein A purified |

Applications

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| Verified Activity: | Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (ITM2B) Polyclonal Antibody, Unconjugated (TMAB-07840) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. |
| Application: | IHC-P,IHC-Fr,IF |
| Recommended | IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human ITM2B |
| Antigen Species: | Human |
| Gene ID: | 9445 |
| Uniprot ID: | Q9Y287 |

Research Background

The type II integral membrane (ITM2) protein family consists of three members: ITM2A (also designated E25), ITM2B and ITM2C. ITM2A expression is high in osteogenic and lymphoid tissues, while both ITM2B and ITM2C are expressed in brain. ITM2B is a 266 amino acid protein that contains a potential N-glycosylation site, a potential single transmembrane-spanning domain between amino acids 52 and 74 and an extracellular C-terminal domain. Mutations in the ITM2B gene can lead to familial British dementia (FBD), and autosomal dominant disease with an onset around the fifth decade of life that is characterized by progressive dementia, spasticity and cerebellar ataxia. Familial Danish dementia (FDD), also designated hereditary ophthalmic-oto-encephalica, is also associated with mutations in the ITM2B gene. FDD is an autosomal dominant disorder characterized by cataracts, deafness, progressive ataxia and dementia.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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