

ITM2B (K-15): sc-50025

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), an 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 ophthalmoto-encephalica, is also associated with mutations in the ITM2B gene. FDD is an autosomal dominant disorder characterized by cataracts, deafness, progressive ataxia and dementia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ITM2B (human) mapping to 13q14.2; Itm2b (mouse) mapping to 14 D3.

SOURCE

ITM2B (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ITM2B of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50025 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ITM2B (K-15) is recommended for detection of ITM2B (Integral membrane protein 2B) of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ITM2B (K-15) is also recommended for detection of ITM2B (Integral membrane protein 2B) in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ITM2B siRNA (h): sc-60869, ITM2B siRNA (m): sc-60870, ITM2B shRNA Plasmid (h): sc-60869-SH, ITM2B shRNA Plasmid (m): sc-60870-SH, ITM2B shRNA (h) Lentiviral Particles: sc-60869-V and ITM2B shRNA (m) Lentiviral Particles: sc-60870-V.

Molecular Weight of ITM2B: 44 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **ITM2B (C-8): sc-374362** or **ITM2B (H-11): sc-374214**, our highly recommended monoclonal alternatives to ITM2B (K-15).