

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ITM2C in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) ITM2A and rhITM2B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ITM2C Ala86-Val267 Accession # Q9NQX7
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

Western Blot 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

ITM2C (Integral membrane protein 2C; also BRI3 and cerebral protein 14) is a 36-38 kDa member of the BRI₃ family of proteins. It is found on neurons and appears to interact with APP, where ITM2C binding blocks proteolytic processing of APP, plus SCG10, where ITM2C binding blocks the microtubule-destabilizing activity of SCG10, thus inhibiting neurite outgrowth. Human ITM2C is a 267 amino acid (aa) type II transmembrane glycoprotein. Proteolytic cleavage by furin at Arg242Gly243 may create a truncated 34-35 kDa ITM2C plus a C-terminal 4 kDa active peptide (aa 243-267). The ECD (aa 76-267) contains one BRICHOS domain (aa 136-230). ITM2C may exist as a dimer. There are two splice variants, one that shows a deletion of aa 41-87, and a second that shows a deletion of aa 151-187. Over aa 86-267, human ITM2C shares 96% aa identity with mouse ITM2C.

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