

DESCRIPTION

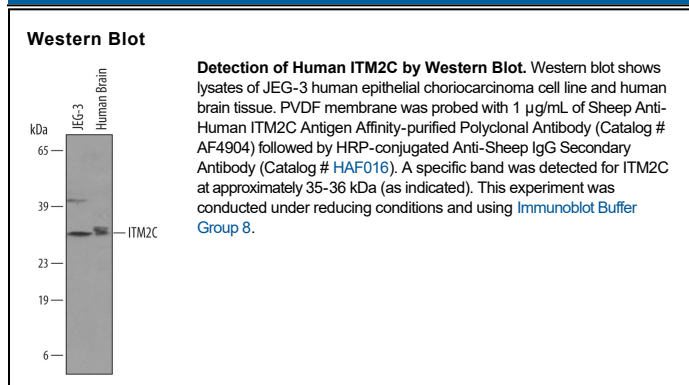
Species Reactivity	Human
Specificity	Detects human ITM2C in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) ITM2A and rhITM2B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ITM2C Ala86-Val267 Accession # Q9NQX7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.