

Human ITM2C Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF4904

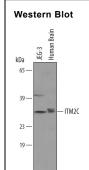
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human ITM2C in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) ITM2A and rhITM2B is observed.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-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



Detection of Human ITM2C by Western Blot. Western blot shows lysates of JEG-3 human epithelial choriocarcinoma cell line and human brain tissue. PVDF membrane was probed with 1 μg/mL of Sheep Anti-Human ITM2C Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4904) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ITM2C at approximately 35-36 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer

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.

- 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.

Rev. 2/6/2018 Page 1 of 1

