

ARG64851 anti-ITM2B antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ITM2B
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ITM2B
Species	Human
Immunogen	C-HDKETYKLRRETIK
Conjugation	Un-conjugated
Alternate Names	E25B; Bri2-23; Immature BRI2; BRICD2B; Bri; Integral membrane protein 2B; Protein E25B; BRI2; Mature BRI2; imBRI2; mBRI2; Transmembrane protein BRI; RDGCA; C-terminal peptide; BRI; FBD; BRI2 ICD; ABri23; P23 peptide; E3-16; ABRI

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/ml
	ICC/IF	10 µg/ml
	IHC-P	2.5 µg/ml
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

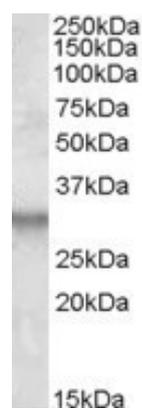
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

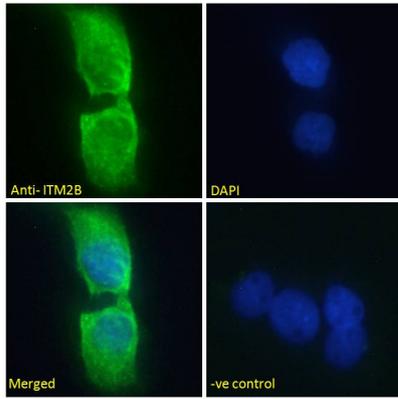
Database links	GeneID: 9445 Human Swiss-port # Q9Y287 Human
Background	<p>Amyloid precursor proteins are processed by beta-secretase and gamma-secretase to produce beta-amyloid peptides which form the characteristic plaques of Alzheimer disease. This gene encodes a transmembrane protein which is processed at the C-terminus by furin or furin-like proteases to produce a small secreted peptide which inhibits the deposition of beta-amyloid. Mutations which result in extension of the C-terminal end of the encoded protein, thereby increasing the size of the secreted peptide, are associated with two neurogenerative diseases, familial British dementia and familial Danish dementia. [provided by RefSeq, Oct 2009]</p>
Research Area	Neuroscience antibody
Calculated Mw	30 kDa
PTM	<p>The ectodomain C-terminal part of the imBRI2 is processed by furin producing a secreted Bri23 peptide and a mature BRI2, membrane form (mBRI2). The remaining part of the ectodomain of mBRI2 containing the BRICHOS domain is cleaved by ADAM10 and is secreted (BRI2C, soluble form). The membrane-bound N-terminal fragment (BRI2C, membrane form) is further proteolytically processed by SPPL2A and SPPL2B through regulated intramembrane proteolysis producing a secreted C-peptide and a BRI2 intracellular domain (BRI2 ICD) released in the cytosol. Shedding by ADAM10 facilitates intramembrane cleavage but is not absolutely required for BRI2 ICD generation. Glycosylation at Asn-170 is important for cell surface localization, but doesn't affect furin- and ADAM10-induced proteolytic processing.</p>

Images



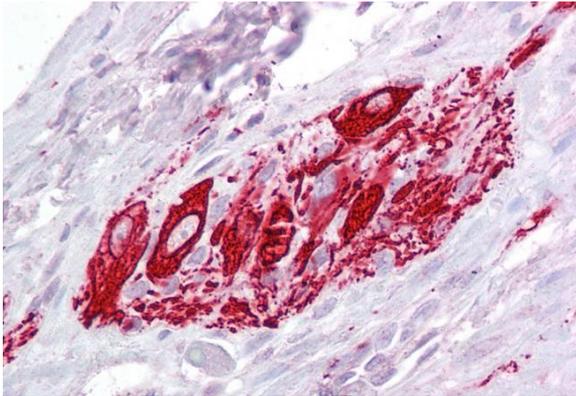
ARG64851 anti-ITM2B antibody WB image

Western Blot: Human Hippocampus lysate (35 µg protein in RIPA buffer) stained with ARG64851 anti-ITM2B antibody at 1 µg/ml dilution.



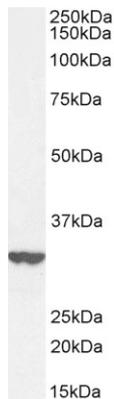
ARG64851 anti-ITM2B antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed A431 cells permeabilized with 0.15% Triton. Cells were stained with ARG64851 anti-ITM2B antibody (green) at 10 $\mu\text{g/ml}$ dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 $\mu\text{g/ml}$ dilution.



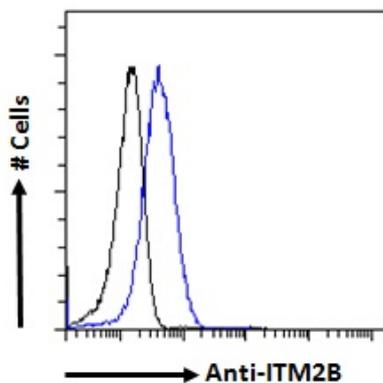
ARG64851 anti-ITM2B antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human small intestine tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64851 anti-ITM2B antibody at 2.5 $\mu\text{g/ml}$ dilution followed by AP-staining.



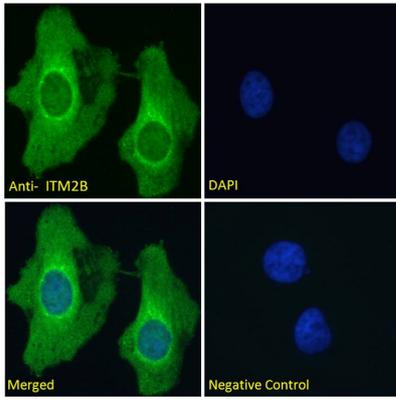
ARG64851 anti-ITM2B antibody WB image

Western blot: 35 μg of HepG2 cell lysate (in RIPA buffer) stained with ARG64851 anti-ITM2B antibody at 0.3 $\mu\text{g/ml}$ dilution and incubated at RT for 1 hour.



ARG64851 anti-ITM2B antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed HeLa cells permeabilized with 0.5% Triton. Cells were stained with ARG64851 anti-ITM2B antibody (blue line) at 10 $\mu\text{g/ml}$ dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



ARG64851 anti-ITM2B antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton. Cells were stained with ARG64851 anti-ITM2B antibody (green) at 10 $\mu\text{g}/\text{ml}$ dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 $\mu\text{g}/\text{ml}$ dilution.