

## 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-HDKETYKLQRRETIK
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

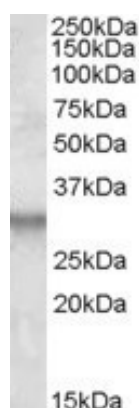
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

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

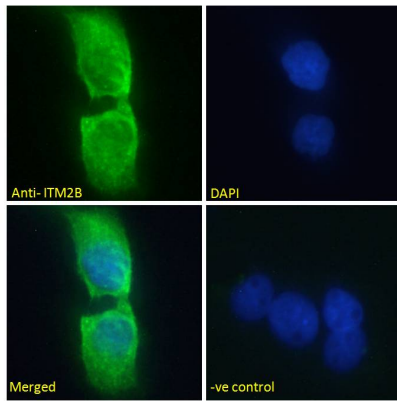
Database links	<a href="#">GeneID: 9445 Human</a> <a href="#">Swiss-port # Q9Y287 Human</a>
Background	Amyloid precursor proteins are processed by beta-secretase and gamma-secretase to produce beta-amyloid peptides which form the characteristic plaques of Alzheimer disease. This gene encodes a transmembrane 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]
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.</p> <p>Glycosylation at Asn-170 is important for cell surface localization, but doesn't affect furin- and ADAM10-induced proteolytic processing.</p>

## Images



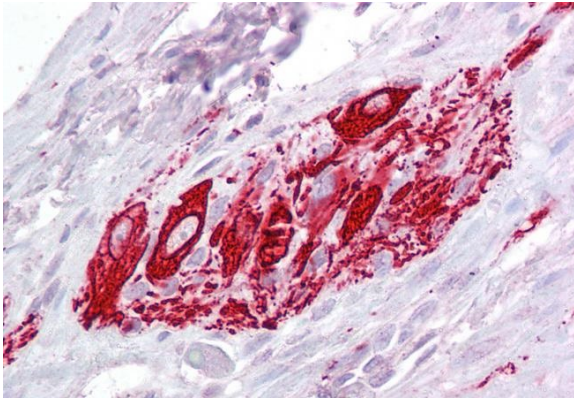
ARG64851 anti-ITM2B antibody WB image

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



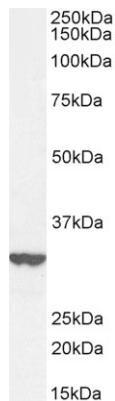
#### ARG64851 anti-ITM2B antibody ICC/IF image

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



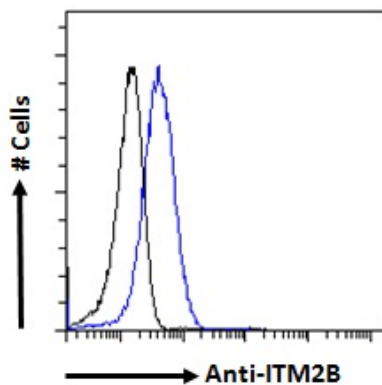
#### ARG64851 anti-ITM2B antibody IHC-P image

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 µg/ml dilution followed by AP-staining.



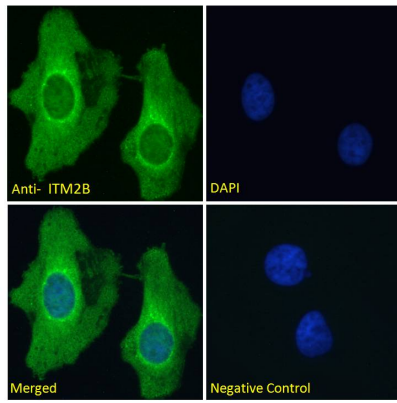
#### ARG64851 anti-ITM2B antibody WB image

Western blot: 35 µg of HepG2 cell lysate (in RIPA buffer) stained with ARG64851 anti-ITM2B antibody at 0.3 µg/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 µg/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 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.