Human ITM2A Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4876V
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ITM2A in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) ITM2B is observed, and less than 1% cross-reactivity with rhITM2C is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human ITM2A Pro80-Glu263 Accession # O43736
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

ITM2A (Integral membrane protein 2A; also protein E25) is a 43-45 kDa member of the ITM2 family of proteins. It is expressed by chondrocytes involved in endochondrial ossification, skeletal muscle, adipose tissue-derived stem cells, and CD3-activated $CD4^+$ and $CD8^+$ T cells. ITM2A is found embedded in both plasma membrane and Golgi complex. Human ITM2A is a 263 amino acid (aa) type II transmembrane glycoprotein. The ECD (aa 75-263) contains one BRICHOS domain (aa 133-227). Proteolytic cleavage by furin is typical for BRICHOS domain-containing proteins. ITM2A may exist as a dimer. There are two potential splice variants, one that shows a deletion of aa 55-81, and a second that shows a deletion of aa 38-81. Full-length human ITM2A shares 95% aa identity with mouse ITM2A.

PRODUCT SPECIFIC NOTICES

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