Human TMEM219 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7556G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TMEM219 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human TMEM219 Leu41-Leu200 Accession # ACQ72822
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
Immunohistochemistry	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

TMEM219 (Transmembrane protein 219; also IGFBP3 Receptor) is a 30-35 kDa member of the 2-transmembrane group of the Pfam-A family of polytopic molecules. It is widely expressed, and appears to be a cell-surface receptor for IGFBP3. Only free IGFBP3 will bind to TMEM219; when complexed to IGF-I, IGFBP3 is unable to recognize the TMEM219 molecule. Ligation of TMEM219 inhibits cell proliferation and induces caspase-8 mediated apoptosis. It is suggested that procaspase-8 is normally sequestered by TMEM219. Following IGFBP3 binding, procaspase-8 is activated and released from TMEM219, resulting in the downstream activation of executioner caspases. Human TMEM219 is a 240 amino acid (aa) 2-transmembrane protein. It contains an N-terminal 20 aa cytoplasmic region, a 21 aa TM domain, a 164 aa extracellular region (aa 41-204), a second 21 aa TM domain, and a C-terminal 15 aa cytoplasmic tail. Over aa 41-200, human TMEM219 shares 82% aa sequence identity with mouse TMEM219.

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