Human TMEM219 Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7556N
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 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475