

Human TMEM219 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7556

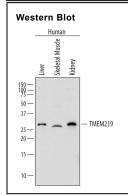
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human TMEM219 in direct ELISAs and Western blots.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human TMEM219 Leu41-Leu200 Accession # ACQ72822		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.		

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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human TMEM219 by Western Blot. Western blot shows lysates of human liver tissue, human skeletal muscle tissue, and human kidney tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human TMEM219 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7556) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for TMEM219 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

