TM4SF2/TSPAN7 Protein, Human (HEK293, His)

Cat. No.:	HY-P77497
Synonyms:	Tetraspanin-7; Tspan-7; CD231; Mxs1; Tm4sf2
Species:	Human
Source:	HEK293
Accession:	AAH18036.1 (R113-M213)
Gene ID:	7102
Molecular Weight:	Approximately 21-30 kDa due to glycosylation

PROPERTIES

AA Sequence	R H E I K D T F L R T Y T D A M Q T Y N G N D E R S R A V D H V Q R S L S C C G V Q N Y T N W S T S P Y F L E H G I P P S C C M N E T D C N P Q D L H N L T V A A T K V N Q K G C Y D L V T S F M E T N M
Biological Activity	When Recombinant Human TSPAN7 Protein is immobilized at 2 μg/mL (100 μL/well) can bind Rabbit Anti-TSPAN7 Antibody. The ED_{50} for this effect is 111.6 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Tetraspanin-7 (TSPAN7) is a member of the tetraspanin family. It mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. Notably, this encoded cell surface glycoprotein has been demonstrated to exert a vital role in the control of neurite outgrowth. Overexpression of TSPAN7 activates Bax, cleaves caspase-3 and PTEN, and inhibits BCa cell growth through the PTEN/PI3K/AKT pathway. Low expression of TSPAN7 is associated with response to oxidative stress, regulation of MAPK, cell population of proliferation, response to tumor necrosis factor, regulation of cell migration, negative regulation of programmed cell death and angiogenesis. In addition,

TSPAN7 plays an important role in the cytoskeletal organization required for the bone-resorbing function of osteoclasts by regulating signaling to Src, Pyk2, and microtubules[1][2].

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