

Product datasheet for **CF504128**

TPSG1 Mouse Monoclonal Antibody [Clone ID: OTI2A10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2A10
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 20-283 of human TPSG1(NP_036599) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	32 kDa
Gene Name:	Homo sapiens tryptase gamma 1 (TPSG1), mRNA.
Database Link:	NP_036599 Entrez Gene 25823 Human Q9NRR2



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Background:

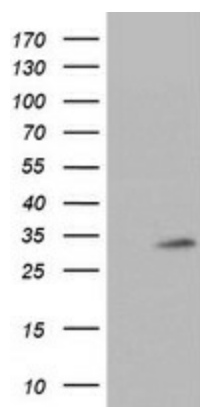
Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1. Tryptases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several tryptase genes are clustered on chromosome 16p13.3. There is uncertainty regarding the number of genes in this cluster. Currently four functional genes - alpha I, beta I, beta II and gamma I - have been identified. And beta I has an allelic variant named alpha II, beta II has an allelic variant beta III, also gamma I has an allelic variant gamma II. Beta tryptases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha-tryptases predominant. This gene differs from other members of the tryptase gene family in that it has C-terminal hydrophobic domain, which may serve as a membrane anchor. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. [provided by RefSeq]. COMPLETENESS: complete on the 3' end.

Synonyms:

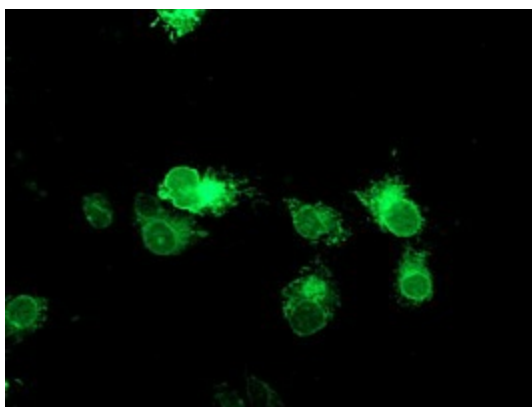
PRSS31; TMT; trpA

Protein Families:

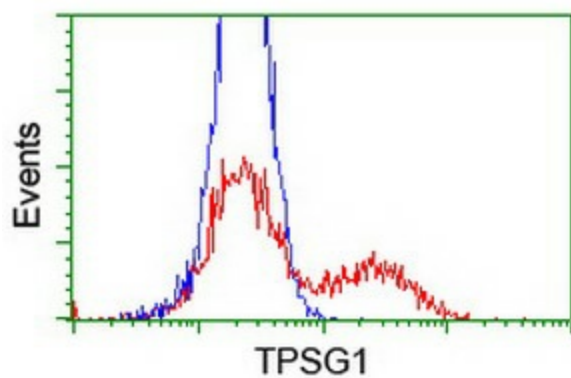
Druggable Genome, Transmembrane

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TPSG1 ([RC222359], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TPSG1. Positive lysates [LY402219] (100ug) and [LC402219] (20ug) can be purchased separately from OriGene.



Anti-TPSG1 mouse monoclonal antibody ([TA504128]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TPSG1 ([RC222359]).



HEK293T cells transfected with either [RC222359] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-TPSG1 antibody ([TA504128]), and then analyzed by flow cytometry.