

## Recombinant Human TPSAB1 cell lysate

Cat. No. TPSAB1-1815HCL Lot. No. (See product label)

### SPECIFICATION

**Species**

Human

**Description**

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. These genes are characterized by several distinct features. They have a highly conserved 3' UTR and contain tandem repeat sequences at the 5' flank and 3' UTR which are thought to play a role in regulation of the mRNA stability. These genes have an intron immediately upstream of the initiator Met codon, which separates the site of transcription initiation from protein coding sequence. This feature is characteristic of tryptases but is unusual in other genes. The alleles of this gene exhibit an unusual amount of sequence variation, such that the alleles were once thought to represent two separate genes, alpha and beta 1. Beta tryptases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha tryptases predominate. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders.

**Size**

100 ul

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)


**Applications**

Western Blot;

### GENE INFORMATION

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<b>Gene Name</b>	TPSAB1 tryptase alpha/beta 1 [ Homo sapiens ]
<b>Official Symbol</b>	TPSAB1
<b>Synonyms</b>	TPSAB1; tryptase alpha/beta 1; TPS1, TPS2, TPSB1, tryptase beta 1; tryptase alpha/beta-1; tryptase alpha II; tryptase beta I; tryptase I; tryptase II; tryptase III; tryptase-1; tryptase-I; tryptase-III; tryptase beta 1; tryptase beta-1; tryptase alpha-1; mast cell beta I tryptase; mast cell alpha II tryptase; TPS1; TPS2; TPSB1; MGC104064;
<b>Gene ID</b>	7177
<b>mRNA Refseq</b>	NM_003294
<b>Protein Refseq</b>	NP_003285
<b>MIM</b>	191080
<b>UniProt ID</b>	Q15661
<b>Chromosome Location</b>	16p13.3
<b>Pathway</b>	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem;
<b>Function</b>	peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity;

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