

**AP54347PU-N****Polyclonal Antibody to TPSAB1 (C-term) - Aff - Purified**

<b>Alternate names:</b>	TPS1, TPS2, TPSB1, Tryptase alpha-1
<b>Quantity:</b>	0.4 ml
<b>Concentration:</b>	lot specific
<b>Background:</b>	<p>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.</p>
<b>Uniprot ID:</b>	<a href="#">P15157</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host / Isotype:</b>	Rabbit / Ig
<b>Immunogen:</b>	KLH conjugated synthetic peptide between 248-275 amino acids from the C-terminal region of human TPSAB1
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Protein A column followed by peptide affinity purification <b>Buffer System:</b> PBS with 0.09% (W/V) sodium azide
<b>Applications:</b>	ELISA: 1:1;000. Western blot: 1:100~500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects TPSAB1 (C-term).
<b>Species Reactivity:</b>	<b>Tested:</b> Human, mouse
<b>Add. Information:</b>	<b>Molecular Weight:</b> 30773 Da
<b>Storage:</b>	Store at 2 - 8 °C for up to six months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:**

1. Lee, J.W., et al. *Dig. Dis. Sci.* 55(10):2922-2928(2010).
2. Trivedi, N.N., et al. *J. Allergy Clin. Immunol.* 124(5):1099-1105(2009).
3. Radhakrishnan, Y., et al. *Biol. Reprod.* 81(4):647-656(2009).
4. Schiemann, F., et al. *J. Immunol.* 183(4):2223-2231(2009).
5. Wei, Z.Y., et al. *Fa Yi Xue Za Zhi* 25(3):164-167(2009).

**Pictures:**

TPSAB1 Antibody (C-term) (AP54347PU-N) western blot analysis in mouse liver tissue lysates (35 µg/lane). This demonstrates the TPSAB1 antibody detected the TPSAB1 protein (arrow).

