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## **TPSB2** Recombinant Monoclonal Antibody

Product Code	CSB-RA958088A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P20231
Immunogen	A synthesized peptide derived from Human TPSB2
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, FC; Recommended dilution: WB:1:500-1:2000, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Others
Gene Names	TPSB2
Clone No.	9H6

Image



Western Blot Positive WB detected in: Mouse Kidney tissue lysate, All lanes: TPSB2 antibody at 1:1000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 30 kDa Observed band size: 30 kDa

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Overlay Peak curve showing K562 cells stained with CSB-RA958088A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific proteinprotein interactions followed by the antibody  $(1\mu g/1*10^6 cells)$  for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Antirabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG  $(1\mu g/1*10^6 cells)$  used under the same conditions. Acquisition of >10,000 events was performed.

## Description

The process of creating a recombinant monoclonal antibody against TPSB2 began with the immunization of a rabbit using a synthesized peptide derived from human TPSB2 protein. B cells were isolated from the immunized rabbit, and RNA was extracted from these B cells. The RNA was reverse-transcribed into cDNA, which served as a template for extending TPSB2 antibody genes using degenerate primers. The extended TPSB2 antibody genes were then incorporated into a plasmid vector and introduced into host cells for expression. Subsequent purification of the TPSB2 recombinant monoclonal antibody from the cell culture supernatant was achieved through affinity chromatography. The TPSB2 antibody was subsequently assessed for its utility in ELISA, WB, and FC applications, with specificity demonstrated toward human and mouse TPSB2 protein.

TPSB2 is primarily found in mast cells, which are immune cells involved in allergic and inflammatory reactions. The main role of the TPSB2 protein is to function as a protease involved in the degradation of proteins, particularly in the context of immune and inflammatory responses.