ARG56137
anti-MBTPS1 antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MBTPS1
Tested Reactivity	Hu, Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MBTPS1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 803-1052 of Human MBTPS1 (NP_003782.1).
Conjugation	Un-conjugated
Alternate Names	PCSK8; Endopeptidase S1P; EC 3.4.21.112; S1P; Membrane-bound transcription factor site-1 protease; SKI-1; Subtilisin/kexin-isozyme 1

Application Instructions

Application table

Application	Dilution
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	K562 and Mouse pancreas
Observed Size	~ 110 kDa

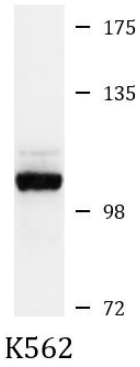
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

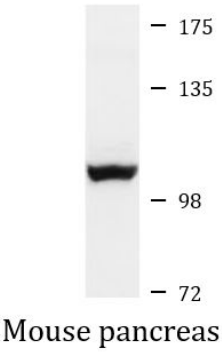
Database links	GeneID: 56453 Mouse GeneID: 8720 Human Swiss-port # Q14703 Human Swiss-port # Q9WTZ2 Mouse
Gene Symbol	MBTPS1
Gene Full Name	membrane-bound transcription factor peptidase, site 1
Background	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to the cis/medial-Golgi where a second autocatalytic event takes place and the catalytic activity is acquired. It encodes a type 1 membrane bound protease which is ubiquitously expressed and regulates cholesterol or lipid homeostasis via cleavage of substrates at non-basic residues. Mutations in this gene may be associated with lysosomal dysfunction. [provided by RefSeq, Feb 2014]
Function	Serine protease that catalyzes the first step in the proteolytic activation of the sterol regulatory element-binding proteins (SREBPs). Other known substrates are BDNF, GNPTAB and ATF6. Cleaves after hydrophobic or small residues, provided that Arg or Lys is in position P4. Cleaves known substrates after Arg-Ser-Val-Leu (SERBP-2), Arg-His-Leu-Leu (ATF6), Arg-Gly-Leu-Thr (BDNF) and its own propeptide after Arg-Arg-Leu-Leu. Mediates the protein cleavage of GNPTAB into subunit alpha and beta, thereby participating in biogenesis of lysosomes. [UniProt]
Calculated Mw	118 kDa
PTM	The 148 kDa zymogen is processed progressively into two membrane-bound 120 and 106 kDa forms in the endoplasmic reticulum, and late into a secreted 98 kDa form. The propeptide is autocatalytically removed through an intramolecular cleavage after Leu-186. Further cleavage generates 14, 10, and 8 kDa intermediates.

Images



ARG56137 anti-MBTPS1 antibody WB image

Western blot: 25 µg of K562 cell lysate stained with ARG56137 anti-MBTPS1 antibody at 1:1000 dilution.



ARG56137 anti-MBTPS1 antibody WB image

Western blot: 25 µg of Mouse pancreas lysate stained with ARG56137 anti-MBTPS1 antibody at 1:1000 dilution.