



Anti-MBTPS1 monoclonal antibody, clone 3F7 (CABT-18505MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The encoded protein has a central role in the regulation of lipid metabolism in cells. It is a sterol-regulated subtilisin-like serine protease that cleaves ER membrane-bound sterol regulatory element-binding proteins (SREBPs), a reaction that initiates the two-step proteolytic process by which transcriptionally active fragments of SREBPs are released from the membrane for translocation to the nucleus. The gene product is an integral membrane ER protein, with the bulk located in the ER lumen. It is synthesized as an inactive preproprotein that is self-activated by an intramolecular cleavage that generates the mature protein. Mouse monoclonal antibody raised against a partial recombinant MBTPS1.
Immunogen	MBTPS1 (NP_957720, 246 a.a. ~ 356 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3F7
Conjugate	Unconjugated
Applications	IFA,sELISA,ELISA
Sequence Similarities	GLGHGTFVAGVIASMRECQGFAPDAELHIFRVFTNNQVSYSWFLDAFNAYILKKIDVLN LSIGGPDMFMDHPFVDKVVWELTANNVIMVSAIGNDGPLYGTLNPNADQMDV*
Size	100 µg
Buffer	In 1x PBS, pH 7.2

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	MBTPS1 membrane-bound transcription factor peptidase, site 1 [Homo sapiens]
Official Symbol	MBTPS1
Synonyms	membrane-bound transcription factor peptidase, site 1; EC 3.4.21.112; S1P; MGC138711; KIAA0091; MGC138712; SKI-1; membrane-bound transcription factor site-1 protease; PCSK8; site-1 protease; membrane-bound transcription factor protease, site 1; subtilisin/kexin isozyme-1; Endopeptidase S1P; SKI1; Subtilisin/kexin-isozyme 1; OTTHUMP00000174991
Entrez Gene ID	8720
Protein Refseq	NP_003782
UniProt ID	Q14703
Chromosome Location	16; 16q24
Pathway	Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem; Unfolded Protein Response, organism-specific biosystem.
Function	peptidase activity; serine-type endopeptidase activity; serine-type endopeptidase activity