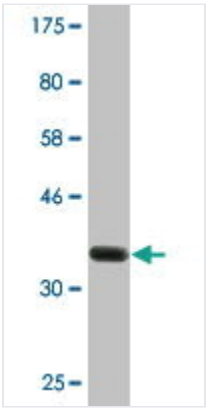
MBTPS2 Antibody – Mouse Monoclonal

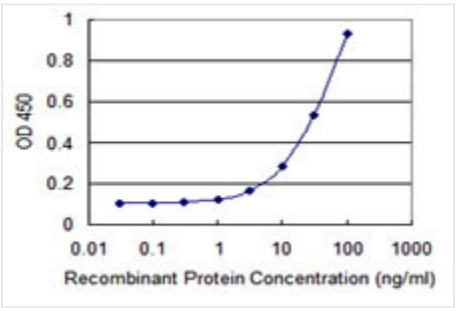
PRODUCT OVERVIEW

Product Name	MBTPS2, Monoclonal Antibody
Full Product Name	MBTPS2 (S2P, Membrane-bound Transcription Factor Site-2 Protease, Endopeptidase S2P, Sterol Regulatory Element-binding Proteins Intramembran Protease, FLJ32174) APC
Product Gene Name	anti-MBTPS2 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1A3
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MBTPS2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product centrifuge the original vial prior to removing the cap.
Molecular Weight	57,444 Da
Chromosome Location	Chromosome: X; NC_000023.10 (21857656..21903541). Location: Xp22.12-p22.11
OMIM	300294
3D Structure	ModBase 3D Structure for O43462
Immunogen	Partial recombinant corresponding to aa312-419 from human MBTPS2 (NP_056968) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ASTLQQLSFPVRAYKRLDGSTECCNNHSLTDVCFSYRNNFNKRLHTCLPARKAVEATQVCRTNKDCKKSSSSSFCIIPSLETHTRLIKVKHPPQIDMLYVG
Conjugate	APC
Product Categories/Family for anti-MBTPS2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-MBTPS2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-MBTPS2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-MBTPS2 antibody	This gene encodes a intramembrane zinc metalloprotease, which is essential in development. This protease functions in the signal protein activation in in sterol control of transcription and the ER stress response. Mutations in this gene have been associated with ichthyosis follicularis with atrichia and photophobia (IFAP syndrome); IFAP syndrome has been quantitatively linked to a reduction in cholesterol homeostasis and ER stress response.
Other Notes	Small volumes of anti-MBTPS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and add dry ice fee may apply.
Searchable Terms for MBTPS2 purchase	MBS6137551 is an antibody targeting MBTPS2. Also known as MBTPS2 (S2P, Membrane-bound Transcription Factor Site-2 Protease, Endopeptidase Sterol Regulatory Element-binding Proteins Intramembrane Protease, FLJ32174) APC. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-MBTPS2 antibody
Western Blot detection against Immunogen (37.88kD).



Testing Data of anti-MBTPS2 antibody
Detection limit for recombinant GST tagged MBTPS2 is 1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MBTPS2. It may not necessarily be applicable to this product.

NCBI GI #	7706693
NCBI GeneID	51360
NCBI Accession #	NP_056968.1
UniProt Primary Accession #	O43462
UniProt Secondary Accession #	Q9UM70; Q9UMD3
UniProt Related Accession #	O43462
GenBank Nucleotide #	NM_015884
NCBI Official Full Name	membrane-bound transcription factor site-2 protease
NCBI Official Synonym Full Names	membrane-bound transcription factor peptidase, site 2
NCBI Official Symbol	MBTPS2
NCBI Official Synonym Symbols	S2P; IFAP; KFSDX; BRESEK
UniProt Protein Name	Membrane-bound transcription factor site-2 protease
UniProt Synonym Protein Names	Endopeptidase S2P; Sterol regulatory element-binding proteins intramembrane protease
Protein Family	Membrane-bound transcription factor site-2 protease
UniProt Gene Name	MBTPS2
UniProt Synonym Gene Names	S2P; SREBPs intramembrane protease
UniProt Entry Name	MBTP2_HUMAN

NCBI Protein Information	membrane-bound transcription factor site-2 protease; endopeptidase S2P; SREBPs intramembrane protease; membrane-bound transcription factor protease, site 2; sterol regulatory element-binding proteins intramembrane protease
UniProt Comments for MBTPS2	MBTPS2: Intramembrane proteolysis of sterol-regulatory element- binding proteins (SREBPs) within the first transmembrane segment thereby releasing the N-terminal segment with a portion of the transmembrane segment attached. Site-2 cleavage comes after site-1 cleavage which takes place in the lumenal loop. Expressed in heart, brain, placenta, lung, liver, muscle, kidney and pancreas. Belongs to the peptidase M50A family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Protease; EC 3.4.24.85 Chromosomal Location of Human Ortholog: Xp22.12-p22.11 Cellular Component: Golgi membrane; cytoplasm; integral to membrane Molecular Function: metalloendopeptidase activity; metal ion binding Biological Process: cholesterol metabolic process; cellular protein metabolic process; unfolded protein response, activation of signaling protein activity; membrane protein intracellular domain proteolysis; unfolded protein response; positive regulation of transcription factor activity Disease: Ifap Syndrome With Or Without Bresheck Syndrome; Palmoplantar Keratoderma, Mutilating, With Periorificial Keratotic Plaques, X-linked; Keratosis Follicularis Spinulosa Decalvans, X-linked
Research Articles on MBTPS2	**1.** We demonstrate a novel association between an MBTPS2 mutation and an X-linked form of Olmsted syndrome.
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