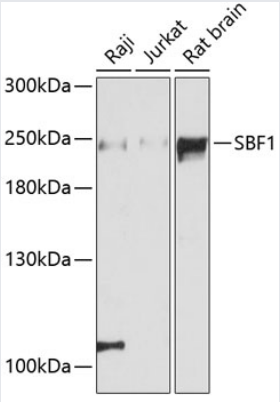
SBF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SBF1, Polyclonal Antibody
Full Product Name	SBF1 Polyclonal Antibody
Product Gene Name	anti-SBF1 antibody
Product Synonym Names	SBF1; CMT4B3; DENND7A; MTMR5; SET binding factor 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	PBS with 50% glycerol, pH7.4
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	208,315 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (50883429..50913464, complement). Location: 22q13.33
OMIM	603560
3D Structure	ModBase 3D Structure for O95248
Immunogen	Recombinant fusion protein of human SBF1 (NP_002963.2).
Conjugation	Unconjugated
Product Categories/Family for anti-SBF1 antibody	Total protein Ab
Applications Tested/Suitable for anti-SBF1 antibody	Western Blot (WB)
Application Notes for anti-SBF1 antibody	WB: 1:500-1:2000
Related Product Information for anti-SBF1 antibody	This gene encodes a member of the protein-tyrosine phosphatase family. However, the encoded protein does not appear to be a catalytically active phosphatase because it lacks several amino acids in the catalytic pocket. This protein contains a Guanine nucleotide exchange factor (GEF) domain which is necessary for its role in growth and differentiation. Mutations in this gene have been associated with Charcot-Marie-Tooth disease 4B3. Pseudogenes of this gene have been defined on chromosomes 1 and 8.
Other Notes	Small volumes of anti-SBF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, 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 additional dry ice fee may apply.
Searchable Terms for SBF1 purchase	MBS9431553 is an antibody targeting SBF1. Also known as SBF1 Polyclonal Antibody. Reactive in Human, Rat. Host: Rabbit.



Western Blot (WB) of anti-SBF1 antibody
Western blot analysis of extracts of various cell lines, using SBF1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SBF1. It may not necessarily be applicable to this product.

NCBI GI #	239735519
NCBI GeneID	6305
NCBI Accession #	NP_002963.2
UniProt Primary Accession #	O95248
UniProt Secondary Accession #	O60228; Q5JXD8; Q5PPM2; Q96GR9; Q9UGB8; A6PVG9
UniProt Related Accession #	O95248; Q59EX9; Q68CX1; Q6PGN5; Q86TK5
GenBank Nucleotide #	NM_002972.2
NCBI Official Full Name	myotubularin-related protein 5
NCBI Official Synonym Full Names	SET binding factor 1
NCBI Official Symbol	SBF1
NCBI Official Synonym Symbols	MTMR5; MGC99700; DKFZp761D0422
UniProt Protein Name	Myotubularin-related protein 5
UniProt Synonym Protein Names	SET-binding factor 1
UniProt Gene Name	SBF1
UniProt Synonym Gene Names	MTMR5
UniProt Entry Name	MTMR5_HUMAN
NCBI Protein Information	myotubularin-related protein 5; OTTHUMP00000196597; OTTHUMP00000196599; SET-binding factor 1; myotubularin related 5

UniProt Comments for SBF1	MTMR5: a pseudophosphatase and nuclear guanine nucleotide exchange factor (GEF) that activates RAB28, a small G protein of the Rab subfamily. Lacks several amino acids in the catalytic pocket, which renders it catalytically inactive as a phosphatase. The pocket is however sufficiently preserved to bind phosphorylated substrates, and maybe protect them from phosphatases. Inhibits myoblast differentiation in vitro and induces oncogenic transformation in fibroblasts. Defects in MTMR5 are the cause of Charcot-Marie-Tooth disease type 4B3 (CMT4B3). Charcot-Marie-Tooth disease is the most common inherited disorder of the peripheral nervous system. Interacts with the SET domain of MLL1. Interacts with SUV39H1. Belongs to the protein-tyrosine phosphatase family. Non-receptor class myotubularin subfamily. Two isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; GEFs, Rab; GEFs; Inhibitor Chromosomal Location of Human Ortholog: 22q13.33 Cellular Component: integral to membrane; nucleus Molecular Function: protein tyrosine/serine/threonine phosphatase activity; Rab guanyl-nucleotide exchange factor activity Biological Process: spermatogenesis; protein amino acid dephosphorylation Disease: Charcot-marie-tooth Disease, Type 4b3
Research Articles on SBF1	**1.** SBF1 (MTMR5) belongs to the myotubularin family of phosphoinositides phosphatases-like
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