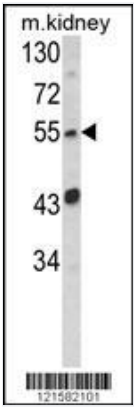
SIL1 Antibody – Rabbit Polyclonal

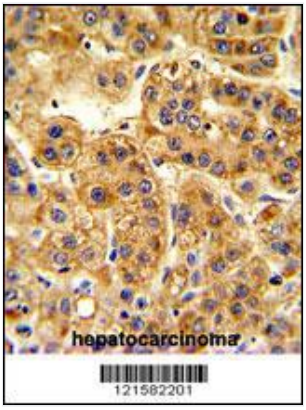
PRODUCT OVERVIEW

Product Name	SIL1, Polyclonal Antibody
Full Product Name	SIL1 Antibody (Center)
Product Gene Name	anti-SIL1 antibody
Product Synonym Names	Nucleotide exchange factor SIL1; BiP-associated protein; BAP; SIL1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, mouse
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This SIL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 99-126 amino acids from the Central region of human SIL1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	SIL1 peptide (MBS9227673) is used for blocking the activity of SIL1 antibody (MBS9209734)
Molecular Weight	52085
Immunogen Sequence Positions	99-126
OMIM	248800
3D Structure	ModBase 3D Structure for Q9H173
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-SIL1 antibody	Signal Transduction
Applications Tested/Suitable for anti-SIL1 antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-SIL1 antibody	WB~~1:1000
Related Product Information for anti-SIL1 antibody	SIL1 IS a resident endoplasmic reticulum (ER), N-linked glycoprotein with an N-terminal ER targeting sequence, 2 putative N-glycosylation sites, and a C-terminal ER retention signal. This protein functions as a nucleotide exchange factor for another unfolded protein response protein.
Product References and Citations for anti-SIL1 antibody	Clark,H.F., ET.AL., Genome Res. 13 (10), 2265-2270 (2003)

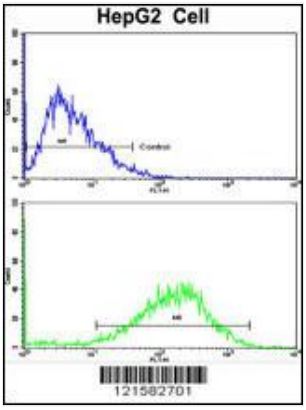
Other Notes	Small volumes of anti-SIL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SIL1 purchase	MBS9209734 is an antibody targeting SIL1. Also known as SIL1 Antibody (Center). Reactive in Human, mouse. Host: Rabbit.



Western Blot (WB) of anti-SIL1 antibody
Western blot analysis of SIL1 Antibody (Center) in mouse kidney tissue lysates (35ug/lane).SIL1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-SIL1 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with SIL1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-SIL1 antibody
Flow cytometric analysis of HepG2 cells using SIL1 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIL1. It may not necessarily be applicable to this product.

NCBI GI #	83641896
NCBI GeneID	64374
NCBI Accession #	NP_001032722.1
NCBI Related Accession #	NP_071909.1
UniProt Primary Accession #	Q9H173
UniProt Secondary Accession #	Q8N2L3; D3DQC2
UniProt Related Accession #	Q9H173
GenBank Nucleotide #	NM_001037633.1

NCBI Official Full Name	nucleotide exchange factor SIL1
NCBI Official Synonym Full Names	SIL1 nucleotide exchange factor
NCBI Official Symbol	SIL1
NCBI Official Synonym Symbols	BAP; MSS; ULG5
UniProt Protein Name	Nucleotide exchange factor SIL1
UniProt Synonym Protein Names	BiP-associated protein; BAP
Protein Family	Nucleotide exchange factor
UniProt Gene Name	SIL1
UniProt Synonym Gene Names	BAP
UniProt Entry Name	SIL1_HUMAN
NCBI Protein Information	nucleotide exchange factor SIL1
NCBI Summary for SIL1	This gene encodes a resident endoplasmic reticulum (ER), N-linked glycoprotein with an N-terminal ER targeting sequence, 2 putative N-glycosylation sites, and a C-terminal ER retention signal. This protein functions as a nucleotide exchange factor for another unfolded protein response protein. Mutations in this gene have been associated with Marinesco-Sjogren syndrome. Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for SIL1	SIL1: Required for protein translocation and folding in the endoplasmic reticulum (ER). Functions as a nucleotide exchange factor for the ER lumenal chaperone HSPA5. Defects in SIL1 are a cause of Marinesco-Sjoegren syndrome (MSS). MSS is an autosomal recessive multisystem disorder which is characterized by cerebellar ataxia due to cerebellar atrophy, with Purkinje and granule cell loss and myopathy featuring marked muscle replacement with fat and connective tissue. Other cardinal features include bilateral cataracts, hypergonadotrophic hypogonadism and mild to severe mental retardation. Skeletal abnormalities, short stature, dysarthria, strabismus and nystagmus are also frequent findings. Mutational inactivation of this protein may result in ER stress- induced cell death signaling or malfunctioning chaperone machineries that mishandle client proteins which are critical for the organs targeted in MSS. Belongs to the SIL1 family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 5q31 Cellular Component: extracellular space; endoplasmic reticulum; endoplasmic reticulum lumen Molecular Function: unfolded protein binding Biological Process: intracellular protein transport; protein folding Disease: Marinesco-sjogren Syndrome
Research Articles on SIL1	**1.** This study demonstrated that SIL1 mutation in patient with ataxia telangiectasia
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