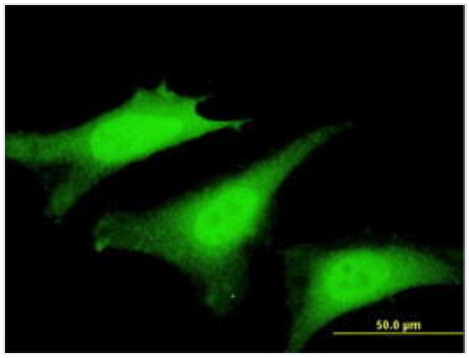
SVIL Antibody – Mouse Monoclonal

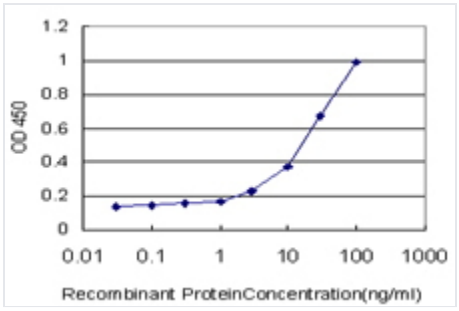
PRODUCT OVERVIEW

Product Name	SVIL, Monoclonal Antibody
Full Product Name	SVIL (Supervillin, Archvillin, p205/p250, DKFZp686A17191) (HRP)
Product Gene Name	anti-SVIL antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	6E10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SVIL.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor 20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can b made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of pr centrifuge the original vial after thawing and prior to removing the cap.
OMIM	604126
3D Structure	ModBase 3D Structure for O95425
Immunogen	Partial recombinant corresponding to aa1679-1787 from human SVIL (NP_003165) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LIHAGLEPLTFTNMFPSWEHREDIAEITEMDTEVSNQITLVEDVLAKLCKTIYPLADLLARPLPEGVDPLKLEIYLTDEDFEFALDMTRDEYNALPAWKQVNL
Conjugate	HRP
Product Categories/Family for anti-SVIL antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-SVIL antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-SVIL antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SVIL antibody	Forms a high-affinity link between the actin cytoskeleton and the membrane. Isoform 1 (archvillin) is among the first costameric proteins to assemble du myogenesis and it contributes to myogenic membrane structure and differentiation. Appears to be involved in myosin II assembly. May modulate myosi regulation through MLCK during cell spreading, an initial step in cell migration. May play a role in invadopodial function. Isoform 2 may be involved in modulation of focal adhesions. Supervillin-mediated down-regulation of focal adehesions involves binding to TRIP6.

Other Notes	Small volumes of anti-SVIL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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 SVIL purchase	MBS6155293 is an antibody targeting SVIL. Also known as SVIL (Supervillin, Archvillin, p205/p250, DKFZp686A17191) (HRP). Reactive in Human. Ho Mouse.



Immunofluorescence (IF) of anti-SVIL antibody
Immunofluorescence of monoclonal antibody to SVIL on HeLa cell. [antibody concentration 10ug/ml]



Testing Data of anti-SVIL antibody
Detection limit for recombinant GST tagged SVIL is ~3ng/ml as a capture antibody.

ADDITIONAL DETAILS

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

NCBI GI #	150417971
NCBI GeneID	6840
NCBI Accession #	NP_003165
UniProt Primary Accession #	O95425
UniProt Related Accession #	O95425
GenBank Nucleotide #	NM_003174
NCBI Official Full Name	supervillin isoform 1
NCBI Official Synonym Full Names	supervillin
NCBI Official Symbol	SVIL
UniProt Protein Name	Supervillin
UniProt Synonym Protein Names	Archvillin; p205/p250
Protein Family	Supervillin
UniProt Gene Name	SVIL
UniProt Entry Name	SVIL_HUMAN
NCBI Protein Information	supervillin
NCBI Summary for SVIL	This gene encodes a bipartite protein with distinct amino- and carboxy-terminal domains. The amino-terminus contains nuclear localization signals and the carboxy-terminus contains numerous consecutive sequences with extensive similarity to proteins in the gelsolin family of actin-binding proteins, which cap, nucleate, and/or sever actin filaments. The gene product is tightly associated with both actin filaments and plasma membranes, suggesting a role as a high-affinity link between the actin cytoskeleton and the membrane. The encoded protein appears to aid in both myosin II assembly during cell spreading and disassembly of focal adhesions. Several transcript variants encoding different isoforms of supervillin have been described. [provided by RefSeq, Apr 2016]

UniProt Comments for SVIL	supervillin: an actin-binding protein that links filamentous actin to the plasma membrane. Binds filamentous actin and myosin II bind within the rsds 1-830 of the amino terminus, an extended intrinsically disordered region (IDR). Forms a high-affinity link between the actin cytoskeleton and the plasma membrane. Four human isoforms are formed by alternative splicing. Isoform 1 (archvillin) is muscle specific and among the first costameric proteins to assemble during myogenesis and it contributes to myogenic membrane structure and differentiation. Appears to be involved in myosin II assembly. May modulate myosin II regulation through MLCK during cell spreading, an initial step in cell migration. May play a role in invadopodial function. Isoform 2 may be involved in modulation of focal adhesions. Supervillin-mediated down-regulation of focal adhesions involves binding to TRIP6. Protein type: Motility/polarity/chemotaxis; Nuclear receptor co-regulator; Contractile; Actin-binding Chromosomal Location of Human Ortholog: 10p11.2 Cellular Component: costamere; focal adhesion; cytoplasm; plasma membrane; podosome; midbody; nucleus; actin cytoskeleton; cleavage furrow Molecular Function: actin filament binding; protein binding Biological Process: positive regulation of cytokinesis; skeletal muscle development; cytoskeleton organization and biogenesis
Research Articles on SVIL	**1.** SVIL regulates neuronal maturation by controlling LSD1+8a mediated histone H3K9 demethylation.
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