

**SVIL Antibody (monoclonal) (M03)****Mouse monoclonal antibody raised against a partial recombinant SVIL.****Catalog # AT4117a****Specification**

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**SVIL Antibody (monoclonal) (M03) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">O95425</a>
Other Accession	<a href="#">NM_003174</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	247746

**SVIL Antibody (monoclonal) (M03) - Additional Information****Gene ID** 6840**Other Names**

Supervillin, Archvillin, p205/p250, SVIL

**Target/Specificity**

SVIL (NP\_003165, 1679 a.a. ~ 1786 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

SVIL Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

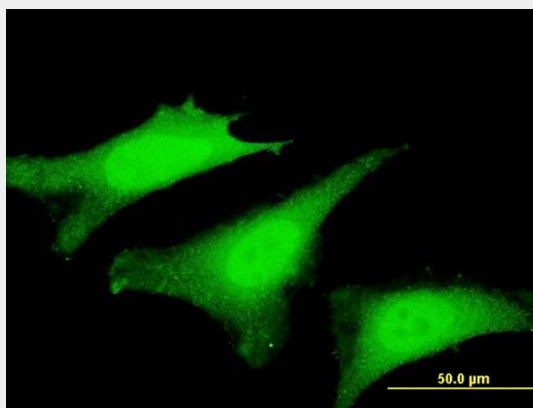
**SVIL Antibody (monoclonal) (M03) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

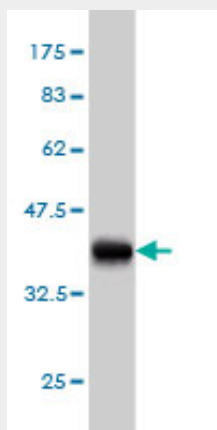
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

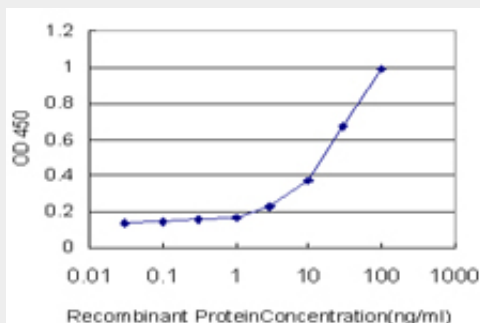
### SVIL Antibody (monoclonal) (M03) - Images



Immunofluorescence of monoclonal antibody to SVIL on HeLa cell . [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.62 KDa) .



Detection limit for recombinant GST tagged SVIL is approximately 3ng/ml as a capture antibody.

### SVIL Antibody (monoclonal) (M03) - Background

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. Two transcript variants encoding different isoforms of supervillin have been described.

#### **SVIL Antibody (monoclonal) (M03) - References**

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. The membrane-associated protein, supervillin, accelerates F-actin-dependent rapid integrin recycling and cell motility. Fang Z, et al. Traffic, 2010 Jun. PMID 20331534. How to arm a supervillin: designing F-actin binding activity into supervillin headpiece. Brown JW, et al. J Mol Biol, 2009 Oct 30. PMID 19683541. Supervillin reorganizes the actin cytoskeleton and increases invadopodial efficiency. Crowley JL, et al. Mol Biol Cell, 2009 Feb. PMID 19109420. Single nucleotide polymorphisms of microRNA machinery genes modify the risk of renal cell carcinoma. Horikawa Y, et al. Clin Cancer Res, 2008 Dec 1. PMID 19047128.