

## Mouse Monoclonal Antibody to Vimentin

<b>Catalogue Number</b>	sAP-0250
<b>Target Molecule</b>	<p><b>Name: Vimentin</b></p> <p><b>Aliases: VIM</b></p> <p><b>MW: 54kDa</b></p> <p><b>Entrez Gene ID: 7431</b></p>
<b>Description</b>	Vimentin, also known as VIM. It is the major subunit protein of the intermediate filaments of mesenchymal cells. It is believed to be involved with the intracellular transport of proteins between the nucleus and plasma membrane. Vimentin has been implicated to be involved in the rate of steroid synthesis via its role as a storage network for steroidogenic cholesterol containing lipid droplets. Vimentin phosphorylation by a protein kinase causes the breakdown of intermediate filaments and activation of an ATP and myosin light chain dependent contractile event. This results in cytoskeletal changes that facilitate the interaction of the lipid droplets within mitochondria, and subsequent transport of cholesterol to the organelles leading to an increase in steroid synthesis. Immunohistochemical staining for Vimentin is characteristic of sarcomas (of
<b>Immunogen</b>	Purified recombinant fragment of Vimentin (aa2-466) expressed in E. Coli. ;
<b>Reactive Species</b>	Human; Monkey
<b>Clone</b>	MM4F2E9;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide. ;
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Cancer Res. 2003 May 15;63(10):2658-64. ; 2. Exp Cell Res. 2007 Oct 15;313(17):3718-28.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end user! This product is sold for **Research Use Only**