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Product datasheet for BP5101

Vimentin (VIM) Guinea Pig Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Immunoblotting:** 1/2000. **Immunohistochemistry on Frozen Sections:** 1/100. **Immunohistochemistry on Paraffin Sections:** 1/50. *Incubation Time:* 1 h at RT, extended with paraffin sections.
Reactivity:	Bovine, Chicken, Hamster, Human, Mouse, Xenopus
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Vimentin purified from calf lens
Specificity:	Specific detection of Vimentin (Mr 57,000 polypeptide). **Tumors specifically detected:** Sarcoma (including myosarcoma), lymphoma, melanoma.
Formulation:	State: Serum State: Liquid Stabilized Antiserum Preservative: 0.09% Sodium Azide Stabilizer: 0.5% BSA
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!**
Stability:	Shelf life: one year from despatch.
Gene Name:	vimentin
Database Link:	Entrez Gene 7431 Human P08670

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Background: Vimentin 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 neural, muscle and fibroblast origin) compared with carcinomas which are generally negative. Melanomas, lymphomas and vascular tumors may all stain for Vimentin. Vimentin antibodies are thus of value in the differential diagnosis of undifferentiated neoplasms and malignant tumors. They are generally used with a panel of other antibodies including those recognizing cytokeratins, lymphoid markers, S100, desmin and neurofilaments.

Synonyms: VIM