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Purified Mouse anti-Vimentin Monoclonal Antibody

CLX138AP
Lot:

Clone: VI-01

Isotype: Mouse IgM

Specificity: The antibody VI-01 reacts with vimentin, a 57 kDa intermediate filament expressed in variety of mesenchymal and mesodermal cell types. Cross-reactivity was found with smooth muscle desmin.

Immunogen: Pellet of porcine brain cold stable proteins after depolymerization of microtubules.

Species Reactivity: Mammalian

Application: **Western Blotting**
Immunocytochemistry
Staining technique:
RBL rat basophilic leukemia cell line:(a) Fix cells for 10 min in methanol at -20°C and for 6 min in acetone at -20°C; (b) Fix cells directly in methanol for 10 min at -20°C or in acetone for 10 min at -20°C.
Incubation: 45 min RT
Positive control:
3T3 mouse Swiss albino fibroblast cell line
RBL rat basophilic leukemia cell line

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by precipitation methods.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. Do not freeze.

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Background: **Vimentin** (57 kDa) is the most ubiquituos intermediate filament protein and the first to be expressed during cell differentiation. All primitive cell types express vimentin but in most non-mesenchymal cells it is replaced by other intermediate filament proteins during differentiation. Vimentin is expressed in a wide variety of mesenchymal cell types -fibroblasts, endothelial cells etc., and in a number of other cell types derived frommesoderm, e.g., mesothelium and ovarian granulosa cells. In non-vascular smooth musclecellsand striated muscle, vimentin is often replaced by desmin, however, duringregeneration, vimentin is reexpressed. Cells of the lymfo-haemopoietic system (lymphocytes, macrophages etc.) also express vimentin, sometimes in scarce amounts. Vimentin is also found in mesoderm derived epithelia, e.g. kidney (Bowman capsule), endometrium and ovary (surface epithelium), in myoepithelial cells (breast, salivary and sweat glands), an in thyroid gland epithelium. In these cell types, as in mesothelial cells, vimentin is coexpressed with cytokeratin . Furthermore, vimentin is detected in many cells from the neural crest. Particularly melanocytes express abundant vimentin. In glial cells vimentin is coexpressed with Glial Fibrillary Acidic Protein (GFAP).

Vimentin is present in many different neoplasms but is particulary expressed in those originated from mesenchymal cells. Sarcomas e.g., fibrosarcoma, malignt fibrous histiocytoma, angiosarcoma, and leio- and rhabdomyosarcoma, as well as lymphomas, malignant melanoma and schwannoma, are virtually always vimentin positive. Mesoderm derived carcinomas like renal cell carcinoma, adrenal cortical carcinoma and adenocarcinomas from endometrium and ovary usually express vimentin. Also thyroid carcinomas are vimentin positive. Any low differentiated carcinoma may express some vimentin.

Vimentin is frequently included in the so-called primary panel (together with CD45, cytokeratin, and S-100 protein). Intense staining reaction for vimentin without coexpression of other intermediate filament proteins is strongly suggestive of a mesenchymal tumour or malignant melanoma.

References:

*Lukas Z, Draber P, Bucek J, Draberova E, Viklicky V, Staskova Z.: Expression of vimentin and glial fibrillary acidic protein in human developing spinal cord. Histochem J. 1989 Dec;21(12):693-701.

*Lukas Z, Draber P, Bucek J, Draberova E, Viklicky V, Dolezel S.: Expression of phosphorylated high molecular weight neurofilament protein (NF-H) and vimentin in human developing dorsal root ganglia and spinal cord. Histochemistry. 1993 Dec;100(6):495-502.

*Draberova E, Draber P, Havlicek F, Viklicky V.: A common antigenic determinant of vimentin and desmin defined by monoclonal antibody. Folia Biol (Praha). 1986;32(5):295-303.

*Bacáková L, Mares V, Lisá V, Svorcík V: Molecular mechanisms of improved adhesion and growth of an endothelial cell line cultured on polystyrene implanted with fluorine ions. Biomaterials. 2000 Jun;21(11):1173-9.

*Bacáková L, Mares V, Bottone MG, Pellicciari C, Lisá V, Svorcík V: Fluorine ion-implanted polystyrene improves growth and viability of vascular smooth muscle cells in culture. J Biomed Mater Res. 2000 Mar 5;49(3):369-79.

This product is made available in collaboration with Exbio Praha, a.s.

Laboratory Reagent For Research Use Only

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