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Purified Mouse Anti-Vimentin Monoclonal Antibody

CLX247AP

Lot:

Size: 0.1 mg

Clone: VI-10

Isotype: Mouse IgM

Specificity: The antibody VI-10 reacts with vimentin, a 57 kDa intermediate filament expressed in variety of mesenchymal and mesodermal cell types.

Species Reactivity: Human, Porcine, Mouse, Rat, Chicken, Other not tested

Application: **Immunoprecipitation**
Western Blotting
Immunohistochemistry (paraffin sections)

Recommended dilution: 5 µg/ml

Positive tissue: skin fibroblast

Immunocytochemistry

Staining technique:

RBL 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 cell line

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by precipitation methods and size-exclusion chromatography.

Concentration: 1 mg/ml

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

Continued...

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

Background: **Vimentin** (57 kDa) is the most ubiquitous 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 from mesoderm, e.g., mesothelium and ovarian granulosa cells. In non-vascular smooth muscle cells and striated muscle, vimentin is often replaced by desmin, however, during regeneration, vimentin is re-expressed. Cells of the lympho-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), and in thyroid gland epithelium. In these cell types, as in mesothelial cells, vimentin is co-expressed with cytokeratin.

Furthermore, vimentin is detected in many cells from the neural crest. Particularly melanocytes express abundant vimentin. In glial cells, vimentin is co-expressed with Glial Fibrillary Acidic Protein (GFAP).

Vimentin is present in many different neoplasms but is particularly expressed in those originated from mesenchymal cells. Sarcomas e.g., fibrosarcoma, malignant fibrous histiocytoma, angiosarcoma, and leiomyosarcoma, 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 co-expression of other intermediate filament proteins is strongly suggestive of a mesenchymal tumour or malignant melanoma.

References: *Draberova E, Zikova M, Draber P.: Monoclonal antibody VI-10 specific for vimentin. Folia Biol (Praha). 1999;45(1):35-6.

Laboratory Reagent For Research Use Only