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Antibody to Human Vimentin
MOUSE MONOCLONAL

Catalog Number: AB-553
Quantity: 500 micrograms, 1 milligram
Format: Lyophilized
Host: Mouse
Isotype: IgG1
Clone: hVimentin
Immunogen: Purified Human Vimentin

Background:

Vimentin expression in human malignant glioma cells depends on cellular density, algorithms of drug delivery and chemo/radio treatment. Vimentin and detyrosinated microtubules provide structural support for the extensive microtentacles observed in detached tumor cells and a mechanism to promote successful metastatic spread. Primary colorectal carcinomas display aberrant expression of vimentin, and have activated Notch and TGFbeta signaling pathways. Vimentin is a strong arterial substrate for transglutaminases. Transglutaminase-mediated vimentin dimerization results in a novel unifying pathway by which vasodilatory and remodeling responses may be regulated. Ablation of vimentin expression inhibits migration and invasion of colon and breast cancer cell lines.

Specificity and Preparation:

Mouse anti-human vimentin is purified by ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution). Vimentin antibody will recognize most mammalian vimentin except mouse and rat.

Usage and Storage:

Reported to be effective for direct ELISA, western blot, immunoprecipitation, and immunohistochemistry. Titer: for intra-cellular staining, use 5-10 μ l/10⁶ cells. Wash twice with PBS/azide before adding the appropriate amount of secondary fluorescent reagent. Reconstitute with H₂O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. In lyophilized form, for long periods, store at 4°C in dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Antibody is stable for two years lyophilized, one month in solution at 4°C. Antibody is shipped lyophilized at ambient temperature.

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