Periostin (POSTN) Antibody

Mouse Monoclonal Antibody [Clone POSTN/3501]

Catalog No	Format	Size
10631-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
10631-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
10631-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

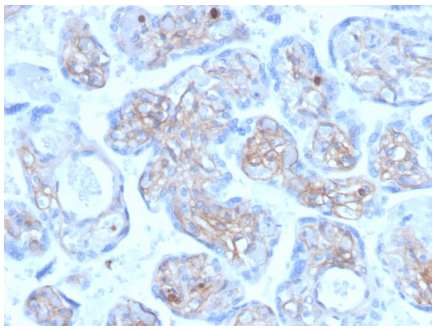
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

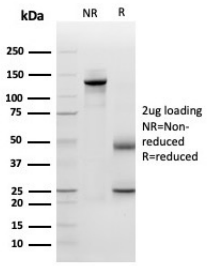
Clone	POSTN/3501
Gene Name	POSTN
Immunogen	Recombinant fragment (around aa193-326) of human POSTN protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	84/74kDa (Periostin); 90kDa (secreted glycoprotein)
Cellular Localization	Extracellular matrix, Extracellular space, Golgi apparatus, Secreted
Species Reactivity	Human
Positive Control	Human placenta, breast or colon tissue.

**Optimal dilution for a specific application should be determined.*

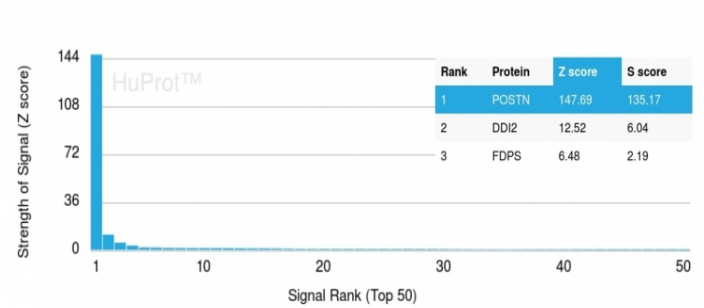
Product Images for Periostin (POSTN) Antibody



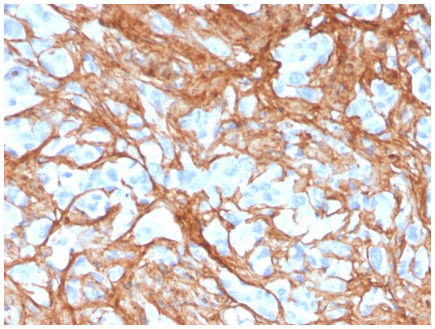
Formalin-fixed, paraffin-embedded human placenta stained with Periostin (POSTN) Mouse Monoclonal Antibody (POSTN/3501).



SDS-PAGE Analysis of Purified Periostin (POSTN) Mouse MonoclonalAntibody (POSTN/3501). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Periostin (POSTN)-Monospecific Mouse Monoclonal Antibody (POSTN/3501). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human colon carcinoma stained with Periostin (POSTN) Mouse Monoclonal Antibody (POSTN/3501).

Specificity & Comments

Periostin (PN), also designated osteoblast-specific factor 2 (OSF-2), is a disulfide linked protein originally isolated as a osteoblast-specific factor. Periostin is a secreted protein that binds heparin and functions as a ligand for ?V?3 and ?V?5 integrins. In preosteoblasts, Periostin acts as a cell adhesion molecule and plays a role in osteoblast recruitment, spreading and attachment. Periostin is mainly detected in lower gastrointestinal tract, aorta, stomach, placenta, uterus and breast tissues but is up-regulated in epithelial ovarian tumors and overexpressed in breast cancer. Expression of Periostin is increased by bone morphogenetic protein (BMP2) and transforming growth factor ? 1 (TGF ? 1). Periostin contains a typical signal sequence, followed by a cysteine-rich domain, a fourfold repeated domain, which shows homology with the insect protein fasciclin, and a C-terminal domain.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Endothelial Cell Marker

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.