Datasheet for ABIN7504149

anti-Periostin antibody (AA 193-326)

4 Images

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Overview

Quantity:	100 µg
Target:	Periostin (POSTN)
Binding Specificity:	AA 193-326
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Periostin antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant fragment (around aa193-326) of human POSTN protein (exact sequence is proprietary)
Isotype:	IgG2b
Specificity:	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 i±Vi²3 and i±Vi²5 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 i² 1 (TGF i² 1). Periostin contains a typical signal sequence, followed by a cysteine-rich domain, a fourfold repeated domain, which shows

Product Details

	homology with the insect protein fasciclin, and a C-terminal domain.
Cross-Reactivity (Details):	Human.
Purification:	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target:	Periostin (POSTN)
Alternative Name:	POSTN (POSTN Products)
Background:	Fasciclin-I like, Osteoblast specific factor 2 (OSF2), PDLPOSTN, Periodontal ligament specific periostin, Periostin isoform thy2 / th4 / thy6 / thy8, Periostin osteoblast specific factor, PN, POSTN,Periostin (POSTN) Cellular localisation: Secreted > extracellular space > extracellular matrix.
Molecular Weight:	84/74kDa (Periostin), 90kDa (secreted glycoprotein)
Gene ID:	10631, 136348, 721018
UniProt:	Q15063

Application Details

Application Notes:	Positive Control: Human placenta, breast or colon tissue. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

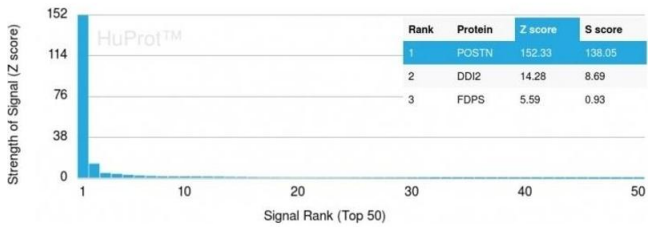
Handling

Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

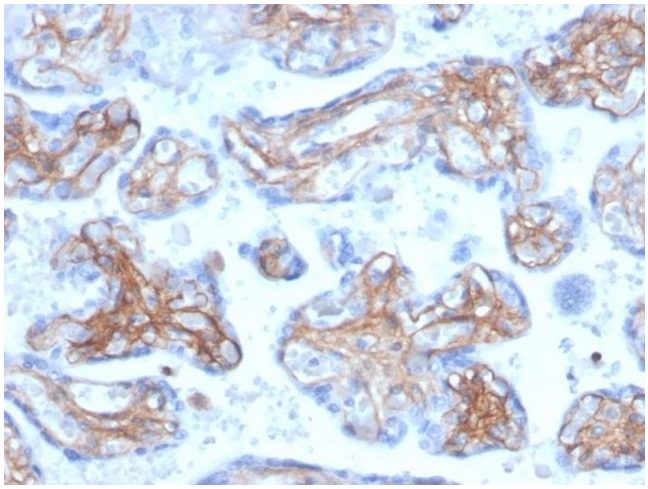
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



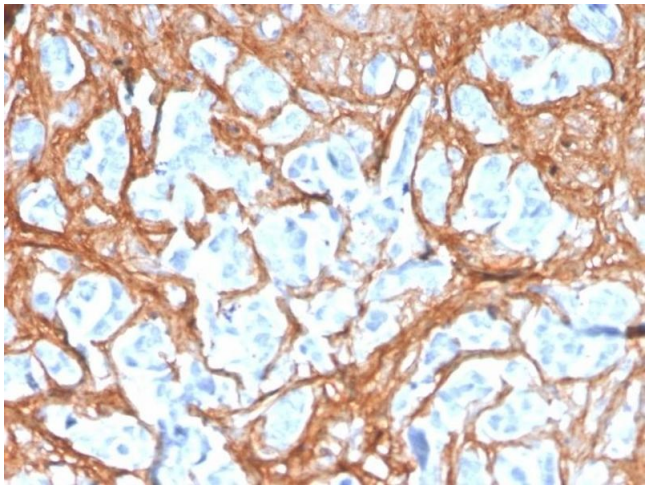
Protein Array

Image 1. Analysis of Protein Array containing more than 19,000 full-length human proteins using Periostin (POSTN)-Monospecific Mouse Monoclonal Antibody (POSTN/3503). 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.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human placenta stained with Periostin (POSTN) Mouse Monoclonal Antibody (POSTN/3503).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human colon carcinoma stained with Periostin (POSTN) Mouse Monoclonal Antibody (POSTN/3503).

Please check the product details page for more images. Overall 4 images are available for ABIN7504149.