

Datasheet for ABIN7504148  
**anti-Periostin antibody (AA 193-326)**[Go to Product page](#)

## 4 Images

## 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:	IgG1
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 $\alpha$ 1 $\beta$ 3 and $\alpha$ 1 $\beta$ 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 $\beta$ 1 (TGF $\beta$ 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.

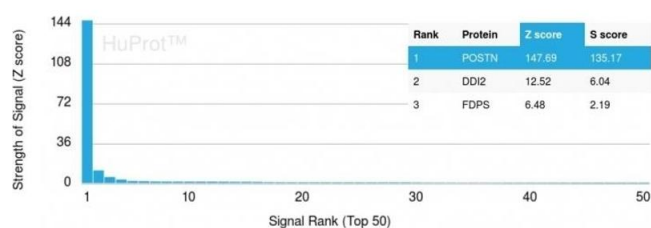
Storage: 4 °C,-80 °C

## 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.

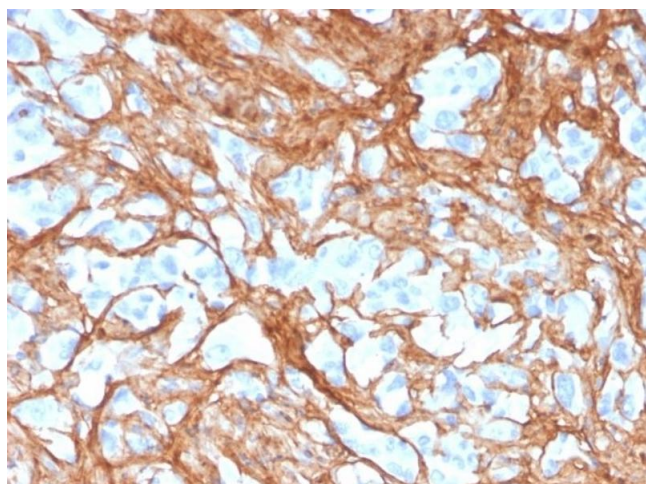
Expiry Date: 24 months

## Images



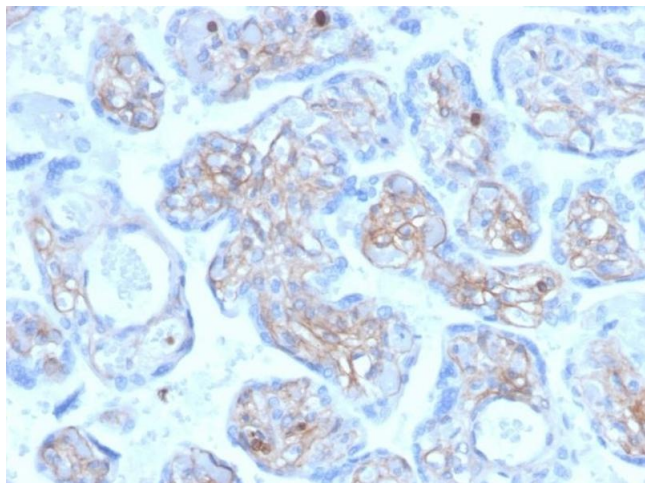
### Protein Array

**Image 1.** Analysis of Protein Array containing more than 19,000 full-length human proteins using Periostin (POSTN)-Monospecific Mouse Monoclonal Antibody (POSTN/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 HuProt™ 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 HuProt™ 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 colon carcinoma stained with Periostin (POSTN) Mouse Monoclonal Antibody (POSTN/3501).



#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human placenta stained with Periostin (POSTN) Mouse Monoclonal Antibody (POSTN/3501).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7504148.