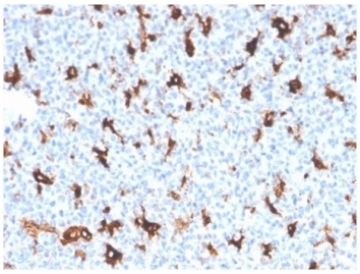
Osteonectin Antibody / SPARC [clone OSTN/3758] (V9577)

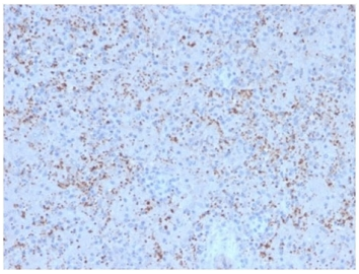
Catalog No.	Formulation	Size
V9577-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9577-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9577SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

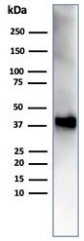
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	OSTN/3758
Purity	Protein A/G affinity
UniProt	P09486
Localization	Secreted
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Osteonectin antibody is available for research use only.



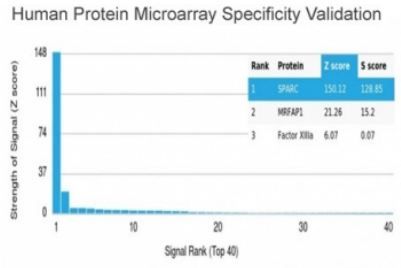
IHC staining of FFPE human tonsil tissue with Osteonectin antibody (clone OSTN/3758). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



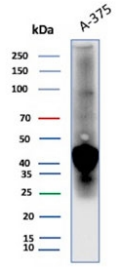
IHC staining of FFPE human spleen tissue with Osteonectin antibody (clone OSTN/3758). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot analysis of human JEG-3 cell lysate using Osteonectin antibody (clone OSTN/3758). Predicted molecular weight 35-45 kDa depending on glycosylation level.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Osteonectin antibody (clone OSTN/3758). These results demonstrate the foremost specificity of the OSTN/3758 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



Western blot analysis of human A375 cell lysate using Osteonectin antibody (clone OSTN/3758). Predicted molecular weight 35-45 kDa depending on glycosylation level.

Description

SPARC (for secreted protein acidic and rich in cysteine) is a phosphorylated, acidic, glycine-rich glycoprotein that is secreted by endothelial cells and is present in large amounts in the parietal endoderm of mouse embryos and in human placenta. It is identical to osteonectin, a protein important to bone calcification that is highly conserved between species. SPARC, which can be selectively expressed by the endothelium in response to certain types of injury, induces rounding in adherent endothelial cells in vitro. It regulates endothelial barrier function through F-Actin-dependent changes in cell shape, coincident with the appearance of intercellular gaps, which provide a paracellular pathway for extravasation of macromolecules.

Application Notes

Optimal dilution of the Osteonectin antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-200 was used as the immunogen for the Osteonectin antibody.

Storage

Aliquot the Osteonectin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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