

## Osteopontin Monoclonal Antibody

Catalog No: #42036

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## Description

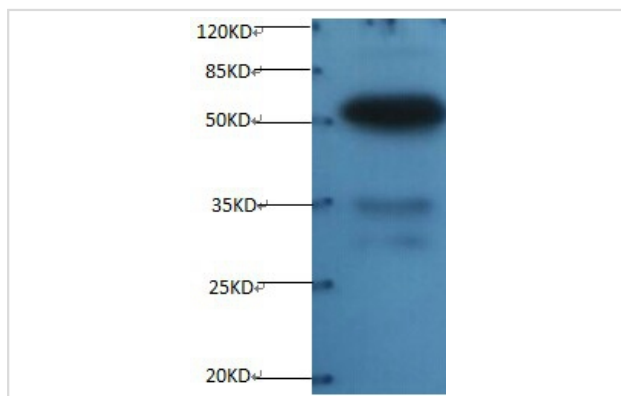
Product Name	Osteopontin Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	protein G purified
Applications	WB IHC
Species Reactivity	Hu
Specificity	specific for human Osteopontin denatured and native forms
Immunogen Type	protein
Immunogen Description	Recombinant Human Osteopontin
Target Name	Osteopontin
Other Names	Bone sialoprotein 1, Nephropontin, Secreted phosphoprotein 1, SPP-1, Urinary stone protein, Uropontin, BNSP, OPN, PSEC0156
Accession No.	Swiss-Prot#: P10451
Uniprot	P10451
GeneID	6696;
Calculated MW	34.5kd
Concentration	1.0mg/mL
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

## Application Details

Western blotting: □1:500 - 1:1000

Immunohistochemistry: 1:20 - 1:200

## Images



All Lanes Mouse anti human OPN monoclonal antibody at at 2 ug/ml

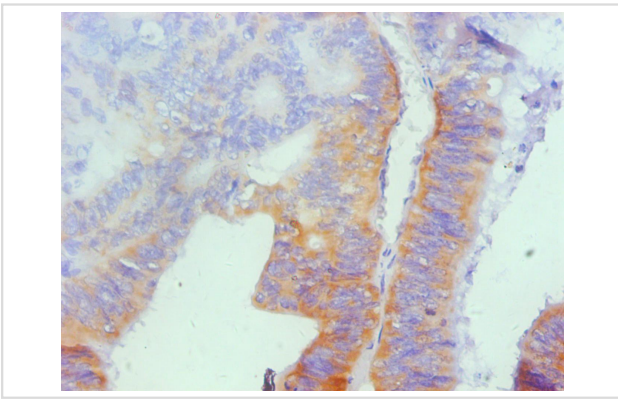
Lane 1 mouse kidney tissue lysate

Secondary Goat polyclonal to Mouse IgG at 1/5000 dilution

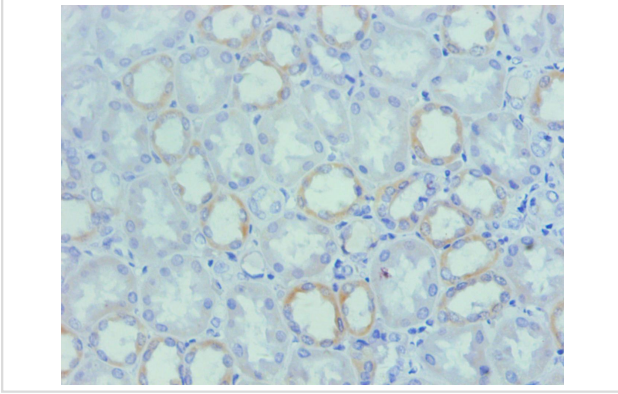
Predicted band size : 34.5 kDa

Observed band size: 35kDa

Additional bands at : 50 kDa. We are unsure as to the identity of this extra band.



Immunohistochemical analysis of paraffin-embedded human colon cancer using #42036 at dilution of 1:200.



Immunohistochemical analysis of paraffin-embedded human Kidney tissue using #42036 at dilution of 1:200.

## Background

Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity

## References

- [1] Kiefer M.C., Bauer D.M., Barr P.J. The cDNA and derived amino acid sequence for human osteopontin. *Nucleic Acids Res.* 17:3306-3306(1989) [2] Young M.F., Kerr J.M., Termine J.D., Wewer U.M., Wang M.G., McBride O.W., Fisher L.W. cDNA cloning, mRNA dist

Note: This product is for in vitro research use only