

Anti-Osteopontin Antibody

ER1802-15



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	IHC-P, ELISA
Molecular Wt:	Predicted band size: 35 kDa

Description: Osteopontin (OPN), also designated bone sialoprotein 1, urinary stone protein, spp-1, Eta-1, nephropontin and uropontin, is an extracellular matrix cell adhesion phosphoglycoprotein. OPN is deposited into unmineralized matrix prior to calcification leading to localization at various tissue interfaces including cement lines, lamina limitans and between collagen fibrils of fully matured hard tissues. While OPN is a major product of osteoblasts, it is also synthesized by brain and kidney cells. OPN isolated from or secreted by various tissues ranges in molecular weight due to posttranslational modifications. OPN functions as a substrate for transglutaminase and is involved in cell adhesion, chemoattraction and immunomodulation.

Immunogen: Synthetic peptide within mouse Osteopontin aa 100-180.

Positive control: Human liver cancer tissue, human kidney tissue, mouse kidney tissue.

Subcellular location: Secreted.

Database links: SwissProt: P10451 Human | P10923 Mouse

Recommended Dilutions:

IHC-P	1:50-1:200
ELISA	1:5,000-1:10,000

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

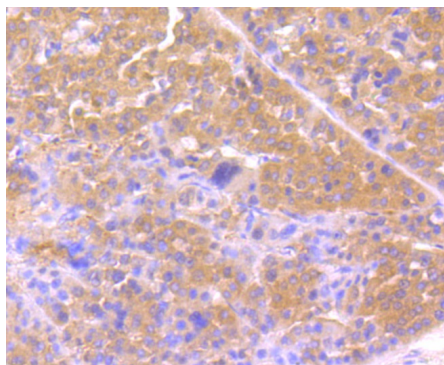


Fig1: Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Osteopontin antibody. Counter stained with hematoxylin.

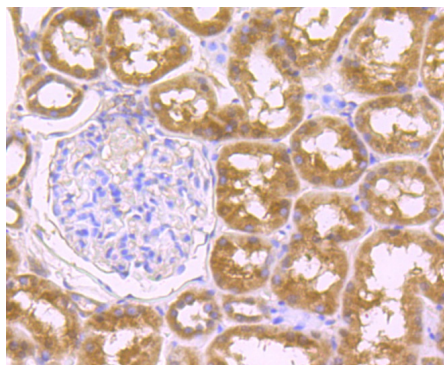


Fig2: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Osteopontin antibody. Counter stained with hematoxylin.

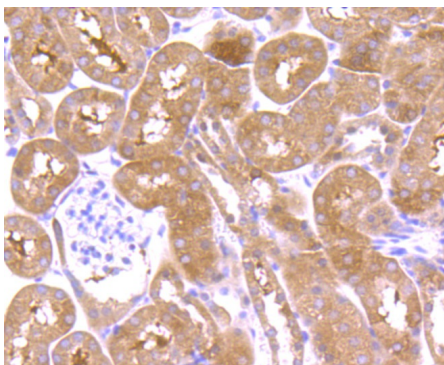


Fig3: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Osteopontin antibody. Counter stained with hematoxylin.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Young MF et al. cDNA cloning, mRNA distribution and heterogeneity, chromosomal location, and RFLP analysis of human osteopontin (OPN). *Genomics* 7(1): 491-502 (1990).
2. Barros NM et al. Proteolytic processing of osteopontin by PHEX and accumulation of osteopontin fragments in Hyp mouse bone, the murine model of X-linked hypophosphatemia. *Journal of Bone and Mineral Research* 28(3): 688-99 (2013).

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