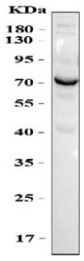
OPN Antibody / Osteopontin (R30503)

Catalog No.	Formulation	Size
R30503	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P10451
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml
Limitations	This OPN antibody is available for research use only.



Western blot testing of human HepG2 cell lysate with OPN antibody. Predicted molecular weight ~35 kDa but may be observed at higher molecular weights due to glycosylation.

Description

Osteopontin is also called urinary stone protein, secreted phosphoprotein 1 (SPP1), bone sialoprotein, and early T lymphocyte activation 1 (ETA1). Osteopontin is a phosphorylated glycoprotein secreted to the mineralizing extrcellular matrix by osteoblasts during bone development. Osteopontin is presumably involved in stone formation as stone matrix. The deduced protein sequence reveals a 317-amino acid protein(34,982 Da) containing a 16-amino acid hydrophobic signal sequence and a 33,352-Da protein destines to undergo extensive post-translational modifications before being

secreted from the cell.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the OPN antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Osteopontin (EEKQLYNKYPDAVATWLNPD) was used as the immunogen for this OPN antibody.

Storage

After reconstitution, the OPN antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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