



Rabbit Anti-Osteopontin antibody

SL0019R

Product Name Osteopontin**Chinese Name** 骨桥蛋白/分泌型磷蛋白 1 抗体**Alias**

BNSP; Bone sialoprotein 1; BSP I; BSPI; Early T lymphocyte activation 1; ETA 1; ETA1; MGC110940; Nephropontin; OPN; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; OSTP_HUMAN; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1); Secreted phosphoprotein 1; SPP 1; SPP-1; SPP1; SPP1/CALPHA1 fusion; Urinary stone protein; Uropontin.

Research Area

immunology Neurobiology Signal transduction transcriptional regulatory factor

Immunogen Species

Rabbit

Clonality

Polyclonal

React Species

Human,Rat

Applications

WB=1:500-2000,IHC-P=1:500-2000,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test
(Paraffin sections need antigen repair)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

34kDa

Cellular localization

Secretory protein

Form

Liquid

Concentration 1mg/ml**immunogen**

KLH conjugated synthetic peptide derived from human OPN: 141-220/314

Lsotype

IgG

Purification

affinity purified by Protein A

Buffer Solution

Human,Rat1M TBS(pH7.4) with 1% BSA, Human,Rat3% Proclin300 and 50% Glycerol.

Storage

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic

or diagnostic applications.

PubMed

[PubMed](#)

Osteopontin is the principal phosphorylated glycoprotein of bone and is expressed in a limited number of other tissues including dentine. Osteopontin is produced by osteoblasts under stimulation by calcitriol and binds tightly to hydroxyapatite. It is also involved in the anchoring of osteoclasts to the mineral of bone matrix via the vitronectin receptor, which has specificity for osteopontin. Osteopontin is overexpressed in a variety of cancers, including lung, breast, colorectal, stomach, ovarian, melanoma and mesothelioma.

Function:

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 (By similarity).

Subunit:

Ligand for integrin alpha-V/beta-3.

Subcellular Location:

Secreted.

**Product
Detail**

Tissue Specificity:

Bone. Found in plasma.

Similarity:

Belongs to the osteopontin family.

SWISS:

P10451

Gene ID:

6696

Database links:

[Entrez Gene: 6696](#) Human

[Entrez Gene: 20750](#) Mouse

[Entrez Gene: 25353](#) Rat

[Omim: 166490](#) Human

[SwissProt: P10451](#) Human

[SwissProt: P10923](#) Mouse

[SwissProt: P08721](#) Rat

[Unigene: 313](#) Human

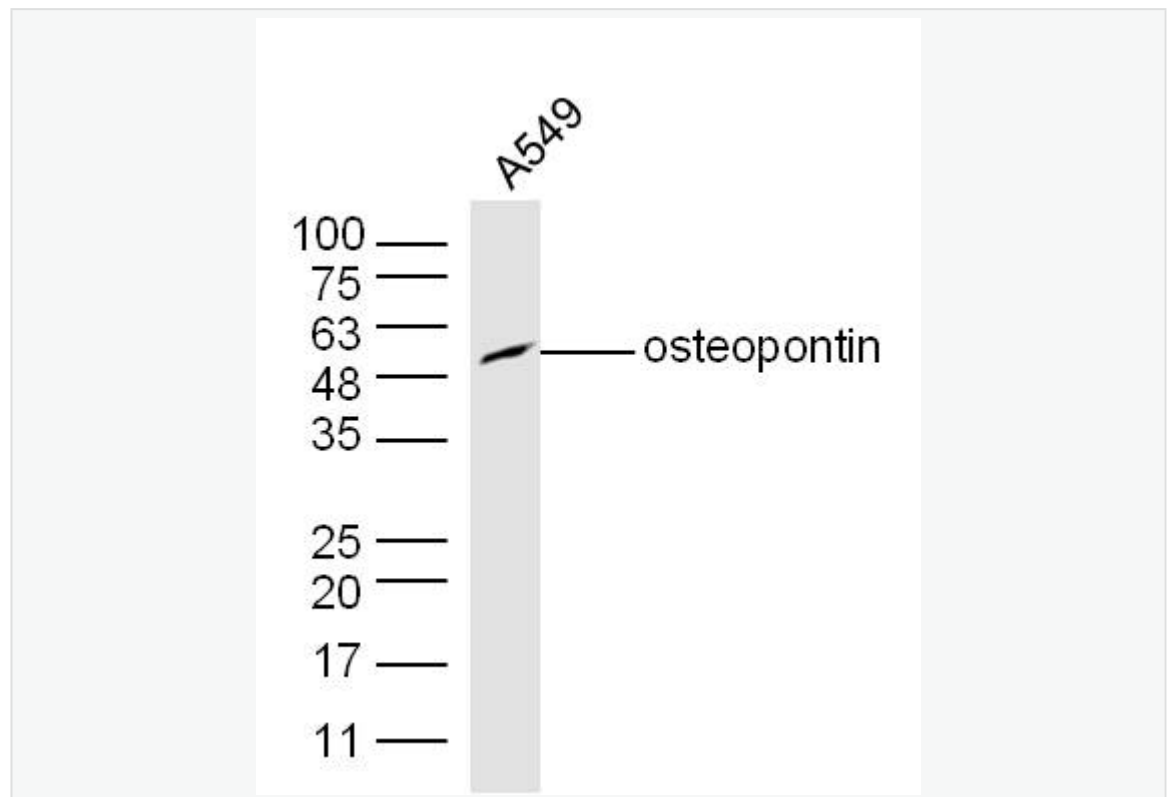
[Unigene: 288474](#) Mouse

[Unigene: 8871](#) Rat

信号传导 (Signaling Intermediates)

骨桥蛋白(osteopontin, OPN)是一种含精氨酸—甘氨酸—天冬氨酸(Arg-Gly-Asp, RGD)的分泌型糖基化磷蛋白,已归类于 Extracellular matrix(extracellular matrix, ECM)蛋白。OPN 既是 cell factor, 又是细胞黏附分子.又称: 分泌性磷酸化蛋白质 1 OPN 最初是从骨组织分离的,而后在 epithelial cells、胃肠道的分泌物、肾、甲状腺、睾丸以及一些 Tumour 细胞里都陆续的发现了 OPN 的表达。在生殖方面, OPN 在分泌期子宫内膜 epithelial cells、侵袭的滋养细胞、蜕膜细胞中表达。

Product
Picture



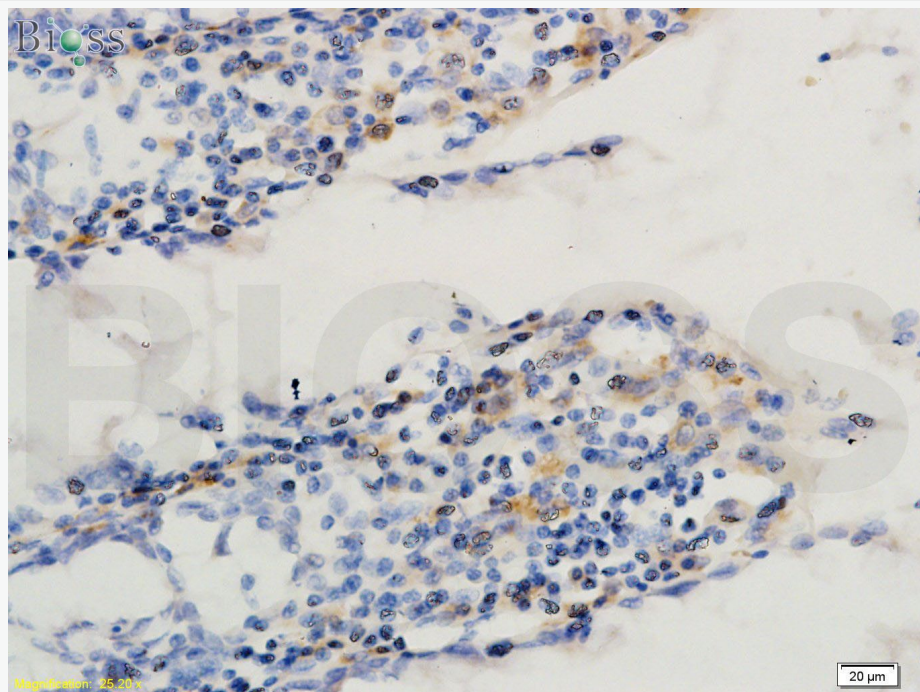
Sample: A549 Cell Lysate at 40 ug

Primary: Anti-osteopontin (SL0019R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 35 kD

Observed band size: 50 kD



bs-0019R Anti-OPN(Osteopontin, human)

Formalin-fixed and paraffin-embedded human rectal carcinoma labeled with Rabbit Anti-OPN(hu) Polyclonal Antibody, Unconjugated(bs-0018R) at 1:300 followed by conjugation to the secondary antibody and DAB staining



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