

# Osteopontin Recombinant antibody

**Cat:**B36219S

**Company:** HaoKebio

**Uniprot ID:**P10451-5

**Applications:** IHC:1:200-1:800

**Organism:**Rabbit

IHC-Polymer:1:800-1:3200

**Species reactivity:**Human Mouse

IHC-TSA:1:1000-1:4000

**Molecular Weight Calculation:** 314 aa, 35 kDa

IF:1:50

**Observed Molecular Weight:** 60-66 kDa

WB:1:1000-1:6000

FC:1:200-1:600

**Background:**

Osteopontin (OPN), also known as SPP1, is a secreted glycoprophoprotein that belongs to the small integrin-binding ligand N-linked glycoprotein (SIBLING) family. Originally isolated from bone, OPN has been found in kidneys, vascular tissues, biological fluids, and various tumor tissues. OPN can interact with CD44 and integrins and regulate diverse biological processes. It has a multifaceted role in bone development and remodeling, and is also involved in the inflammatory and immune response, oncogenesis and cancer progression. The very acidic nature of OPN, as well as the presence of variable posttranslational modifications, has led to anomalous migration in SDS-polyacrylamide gels and therefore to reports of different molecular weights for OPN. Depending on the cell and tissue source and/or the SDS-PAGE system, OPN migrates with a molecular weight of 44-80 kDa, as well as at some smaller bands corresponding to peptide fragments.

**Form:**

Liquid

**Storage Buffer:**

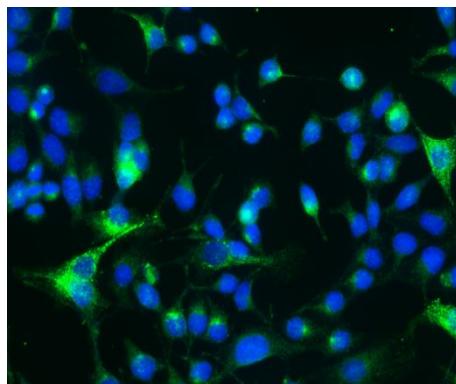
PBS with 0.02% sodium azide, 100 µg/ml BSA and 50% glycerol.

**Storage:**

Store at -20 °C for one year.

**Experimental procedure:**

Antigen retrieval: Citrate buffer (pH 9.0), Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4°C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

**Images:**


Sample:HeLa cell, 4% PFA 12-24h

**Synonyms:**

OPN, SPP1, OPN, 240206A2, BNSP, Bone sialo protein 1

**Immunogen:**

Recombinant protein

**Isotype:**

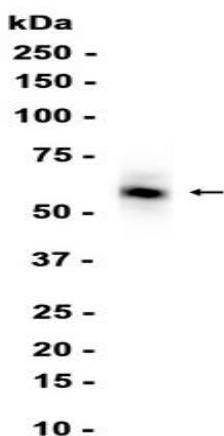
IgG

**Subcellular location:**

Cytoplasm, Extracellular matrix

**Purity:**

Affinity purification



Dilution of 1:6000 incubated at room temperature for 1.5 hours.

**Source of Reagents:**

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) were kindly provided by Hangzhou Haoke Biotechnology Co., Ltd.