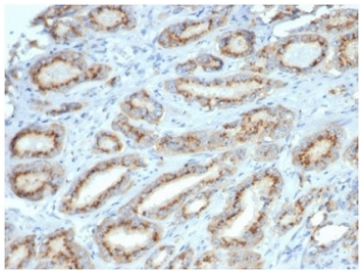
# Osteopontin Antibody / OPN / SPP1 [clone OSP/4589] (V9592)

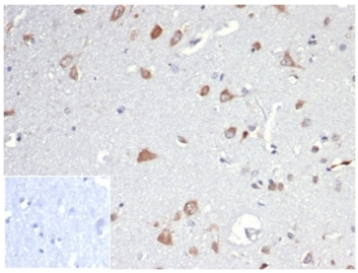
| Catalog No. | Formulation | Size |
|---|---|---|
| V9592-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9592-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V9592SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rat |
| **Clonality** | Monoclonal (rat origin) |
| **Isotype** | Rat IgG1 |
| **Clone Name** | OSP/4589 |
| **Purity** | Protein A/G affinity |
| **UniProt** | P10451 |
| **Localization** | Secreted |
| **Applications** | Immunohistochemistry (FFPE) : 1-2ug/ml |
| **Limitations** | This Osteopontin antibody is available for research use only. |



IHC staining of FFPE human prostate with Osteopontin antibody (clone OSP/4589) at 2ug/ml in PBS. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human brain tissue with Osteopontin antibody (clone OSP/4589). Negative control inset: PBS instead of primary antibody to control for secondary binding.

## Description

Osteopontin is a bone matrix protein and a cytokine secreted by activated T cells. Osteopontin (OPN, also designated bone sialoprotein 1, urinary stone protein, spp-1, -1, nephropontin, 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. OPNs isolated from or secreted by various tissues have molecular weights due to post-translational modifications. OPN functions as a substrate for transglutaminase and is involved in cell adhesion, chemoattraction and immunomodulation.

## Application Notes

Optimal dilution of the Osteopontin antibody should be determined by the researcher.

## Immunogen

Recombinant full-length rat Spp1/Osteopontin protein was used as the immunogen for the Osteopontin antibody.

## Storage

Aliquot the Osteopontin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com

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