

Rabbit anti-Human OPN-a/b Polyclonal Antibody

OPN-a/b, NT (SPP1, BNSP, OPN, Osteopontin, Bone sialoprotein 1, Nephropontin, Secreted phosphoprotein 1, Urinary stone protein, Uropontin)

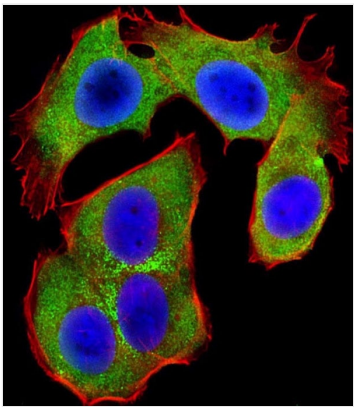
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14796	Rabbit	Human	ELISA, Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

OPN-a/b; Polyclonal Antibody; NT (SPP1; BNSP; OPN; Osteopontin; Bone sialoprotein 1; Nephropontin; Secreted phosphoprotein 1; Urinary stone protein; Uropontin); Anti -OPN-a/b; anti-OPN-a/b antibody

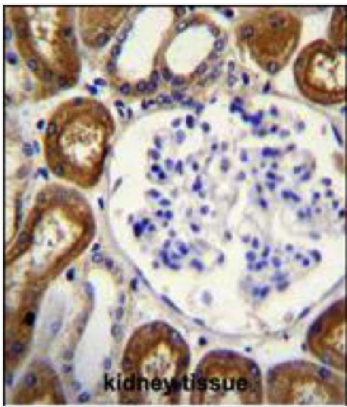
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Human
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Applicable Applications for anti-OPN-a/b antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	Suitable for use in Western Blot, Immunohistochemistry, Immunofluorescence, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:50-100 Immunofluorescence: 1:10-50
Immunogen	OPN-a/b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-48 amino acids from the N-terminal region of human OPN-a/b.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



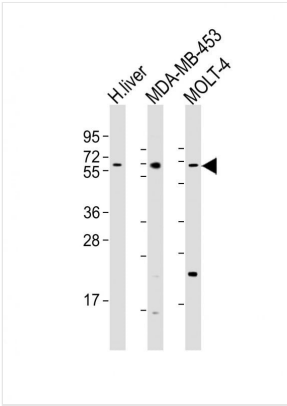
IF (Immunofluorescence)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF-7 (human breast cancer cell line) cells labeling Pdx1 with AAA14796 at 1:25 dilution, followed by Dylight® 488-conjugated IgG goat anti-rabbit secondary antibody at 1:200 dilution (green). Immunofluorescence image showing cytoplasm staining on MCF-7 cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1:100 dilution (red). The nuclear counter stain is DAPI (blue).



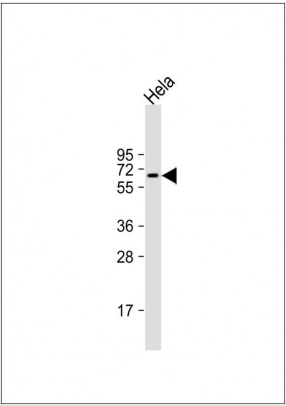
IHC (Immunohistochemistry)

Immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue using AAA14796 followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of AAA14796 for immunohistochemistry.



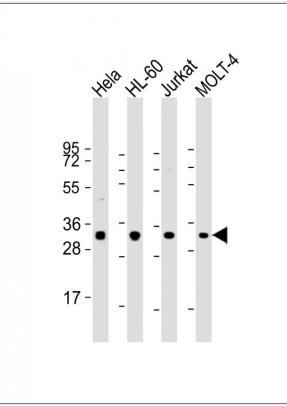
Application Data

All lanes: AAA14796 at 1:1000 dilution Lane 1: human liver lysates Lane 2: MDA-MB-453 whole cell lysates Lane 3: MOLT-4 whole cell lysates Lysates/proteins at 20ug/lane. Secondary IgG, (H+L) goat anti-rabbit, Peroxidase conjugated at 1:10000 dilution. Predicted band size : 35kD Blocking/Dilution buffer: 5% NFDm/TBST.



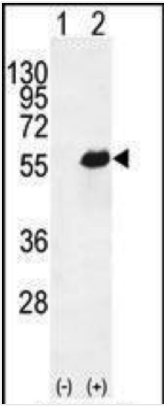
Application Data

AAA14796 at 1:2000 dilution + HeLa whole cell lysate Lysates/proteins at 20ug/lane. Secondary IgG, (H+L) goat anti-rabbit Peroxidase conjugated at 1:10000 dilution. Predicted band size: 35kD Blocking/Dilution buffer: 5% NFDm/TBST.



Application Data

All lanes: AAA14796 at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: MOLT-4 whole cell lysate Lysates/proteins at 20ug/lane. Secondary IgG (H+L) goat anti-rabbit, Peroxidase conjugated at 1:10000 dilution. Predicted band size: 35kD Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)

Western Blot analysis of OPN-a/b (arrow) using AAA14796. 293 cell lysates (2ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the OPN-a/b gene.

ADDITIONAL INFORMATION

Related Product Information for anti-OPN-a/b antibody	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).
Product Categories/Family for anti-OPN-a/b antibody	Antibodies; Abs to Proteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/opn-a-b-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/14796>