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Research Use Only. Not for diagnostic or therapeutic use.

EB10272 - Goat Anti-ANGPT1 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: AGP1, AGPT, ANG1, angiopoietin 1, ANGPT1 Official Symbol: ANGPT1 Accession Number(s): NP_001137.2 Human GenelD(s): <u>284</u> Non-Human GenelD(s): 11600 (mouse), 89807 (rat)

Immunogen

Peptide with sequence C-PDFSSQKLQH, from the internal region of the protein sequence according to NP_001137.2.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.

Western blot: In transfected HEK293 transiently expressing full-length Human ANGPT1 (myc and DYKDDDDK tagged), a band of approx. 48kDa was observed. No bands were observed in mock-transfected HEK293 and the 48kDa plus a 75kDa band was observed using anti-DYKDDDDK tag antibody.

An approx. 48kDa band was also observed in lysates of cell line K562 and was successfully blocked by incubation with the immunizing peptide. Recommended concentration: $0.1-1\mu g/ml$. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the plasma membranes of A431 and HeLa cells. Recommended concentration: 10µg/ml.

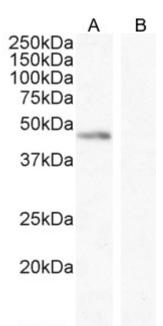
Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human

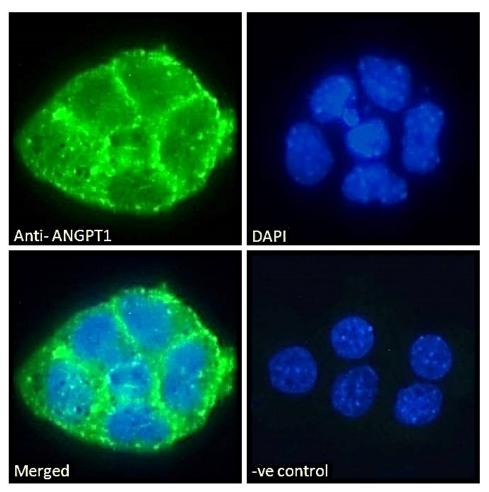
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow, Pig



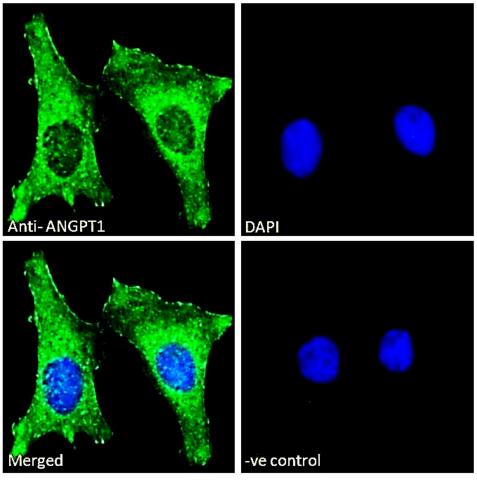


15kDa

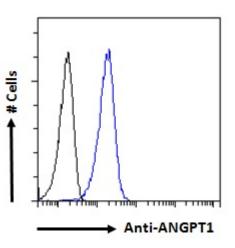
EB10272 (0.1µg/ml) staining of K56 cell lysate (A) + peptide (B) (35µg protein in RIPA buffer). Detected by chemiluminescence.



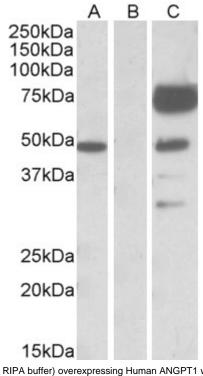
EB10272 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing plasma membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB10272 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing plasma membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB10272 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



HEK293 lysate (10ug protein in RIPA buffer) overexpressing Human ANGPT1 with DYKDDDDK tag probed with EB10272(1ug/ml) in Lane A and probed with anti- DYKDDDDK Tag (1/1000) in lane C. Mock-transfected HEK293 probed with EB10272 (1mg/ml) in Lane B. Primary incubations were for 1 hour. Detected by chemiluminescence.