

International Office

Everest Biotech Ltd

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 United States

Customer Service:

customerservice@vectorlabs.com

Technical Service:

technical@vectorlabs.com

Tel: +1 (800) 227-6666

www.everestbiotech.com

Research Use Only. Not for diagnostic or therapeutic use.

EB10744 - Goat Anti-SDF4 (aa161-175) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: SDF4, stromal cell derived factor 4, Cab45, 45 kDa calcium-binding protein, OTTHUMP00000001754, SDF-4, calcium binding protein, stromal cell-derived

factor 4

Official Symbol: SDF4

Accession Number(s): NP_057631.2; NP_057260.3

Human GeneID(s): 51150

Non-Human GenelD(s): 20318 (mouse), 155173 (rat)

Important Comments: This antibody is expected to recognize both reported isoforms

NP_057631.2; and NP_057260.3

Immunogen

Peptide with sequence C-EYKVKFLASKGHSEK, from the internal region of the protein sequence according to NP_057631.2; NP_057260.3.

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 1:64000.

Western blot: Approx 45kDa band observed in lysates of cell lines Jurkat, HeLa and U251 (calculated MW of 41.8kDa according to NP_057260.2). Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.

IHC: In paraffin embedded Human Kidney shows preferential staining in the brush borders of epithelial cells. Recommended concentration: 5-10µg/ml.

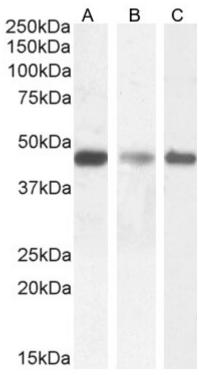
Immunofluorescence: Strong expression of the protein seen in the golgi and cytoplasm of U2OS cells. Recommended concentration: 10µg/ml.

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

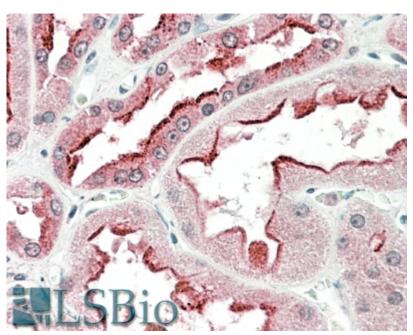
Species Reactivity

Tested: Human

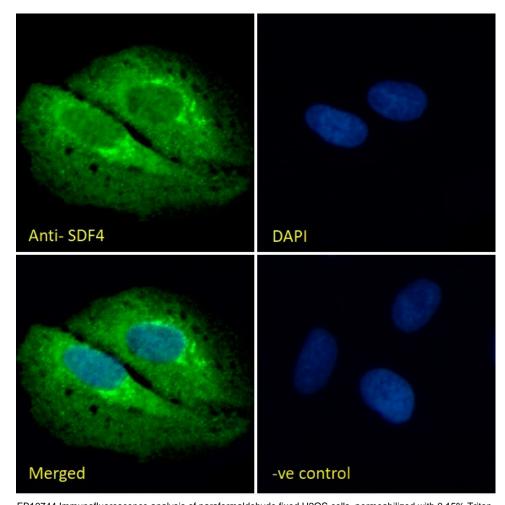
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow



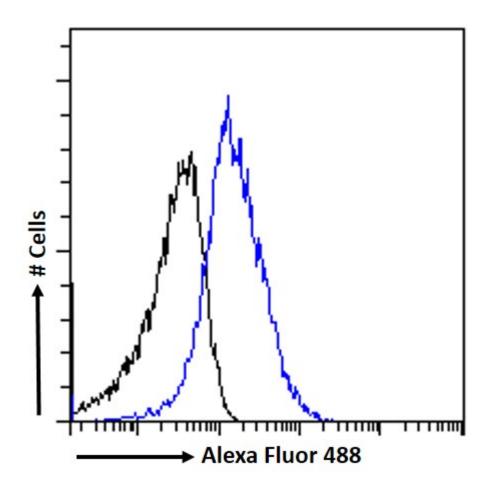
EB10744 (0.1 μ g/ml) staining of Jurkat (A), HeLa (B) and U251 (C) cell lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



EB10744 (5μg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB10744 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Golgi 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).



EB10744 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.