

UK Office

Everest Biotech Ltd

Cherwell Innovation Centre 77 Heyford Park Upper Heyford Oxfordshire OX25 5HD UK

Enquiries:

info@everestbiotech.com

Sales:

sales@everestbiotech.com

Tech support:

support@everestbiotech.com

Tel: +44 (0)1869 238326

www.everestbiotech.com

Research Use Only. Not for diagnostic or therapeutic use.

EB12145 - Goat Anti-KIT / CD117 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: KIT, v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog, C-Kit, CD117, PBT, SCFR, mast/stem cell growth factor receptor Kit, p145 c-kit, piebald trait protein, proto-oncogene c-Kit, proto-oncogene tyrosine-protein kinase Kit, soluble KIT

varian

Official Symbol: KIT

Accession Number(s): NP_000213.1; NP_001087241.1

Human GeneID(s): 3815

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

(NP_000213.1; NP_001087241.1).

Immunogen

Peptide with sequence KRDSFICSKQEDH, from the internal region of the protein sequence according to NP_000213.1; NP_001087241.1.

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 1:128000.

Western blot: Approx 110kDa band observed in Human Brain (Hippocampus) lysates (calculated MW of 110kDa according to NP_000213.1). An additional band of unknown identity was also consistently observed at 35kDa. This band was successfully blocked by incubation with the immunizing peptide. Recommended concentration: 1-3µg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Prostate. Recommended concentration: 10µg/ml.

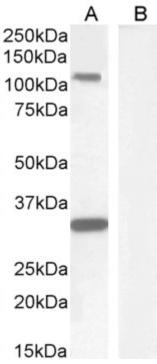
Immunofluorescence: Strong expression of the protein seen in the cytoplasm/membranes of HEK293 and HeLa cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of MCF7 cells. Recommended concentration: 10ug/ml.

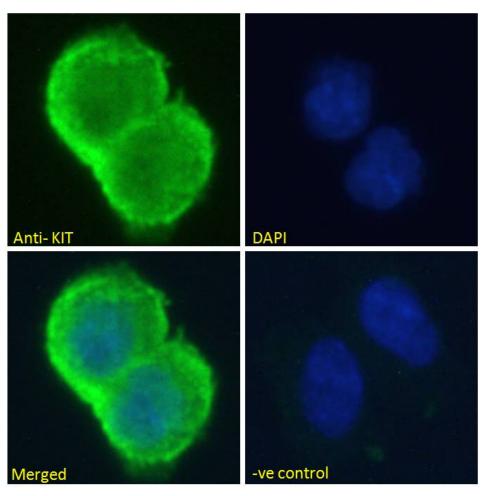
Species Reactivity

Tested: Human

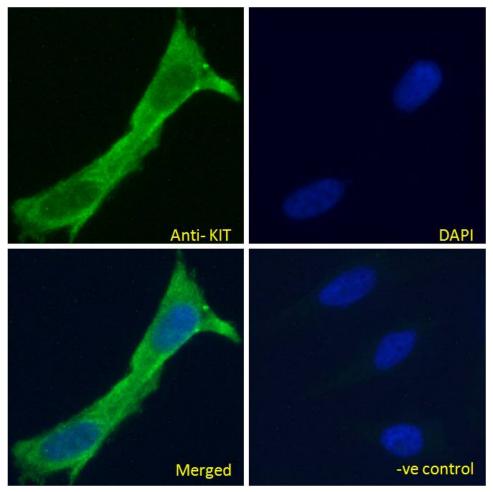
Expected from sequence similarity: Human, Dog, Pig, Cow



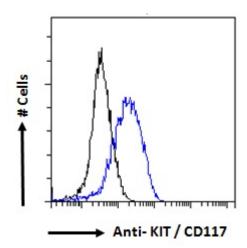
EB12145 (1µg/ml) staining of Human Hippocampus lysate (A) + peptide (B) (35µg protein in RIPA buffer). Detected by chemiluminescence.



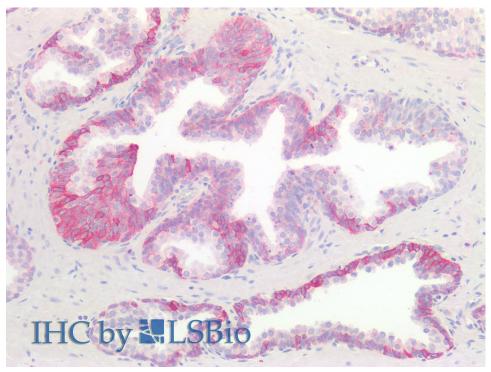
EB12145 Immunofluorescence analysis of paraformaldehyde fixed HEK293 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic/membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG



EB12145 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 cytoplasmic/membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB12145 Flow cytometric analysis of paraformaldehyde fixed MCF7 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.



EB12145 (10 μ g/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.