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EB06619-T - Goat Anti-IRAK4 (N Terminus) Antibody - Trial

Size: 20µg specific antibody in 40µl

Target Protein

Principal Names: IRAK4, REN64, NY-REN-64, interleukin-1 receptor-associated kinase 4, IRAK-4 mutated form 1, interleukin-1 receptor associated kinase 4, interleukin-1 receptor associated kinase 4 mutant form 1, IPD1
Official Symbol: IRAK4
Accession Number(s): NP_057207.2; NP_001107654.1
Human GeneID(s): 51135
Non-Human GeneID(s): 266632 (mouse)

Immunogen

Peptide with sequence NKPITPSTYVRC, from the N Terminus of the protein sequence according to NP_057207.2; NP_001107654.1.

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

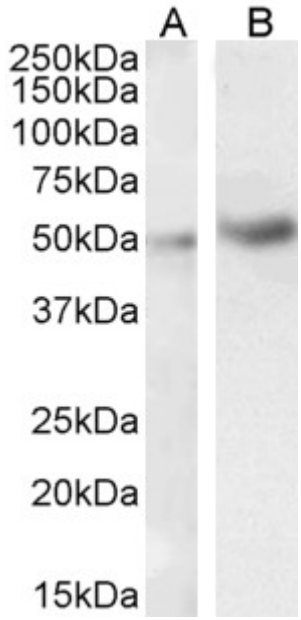
Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Approx 50kDa band observed in lysates of cell line HeLa and approx 55kDa in lysates of cell line Jurkat (calculated MW of 51.5kDa according to NP_057207.1). This molecular weight is routinely observed by other sources. Recommended concentration: 0.5-2µg/ml. Primary incubation 1 hour at room temperature.
IHC: Paraffin embedded Human Heart and Human Liver. Recommended concentration: 3.75µg/ml.

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

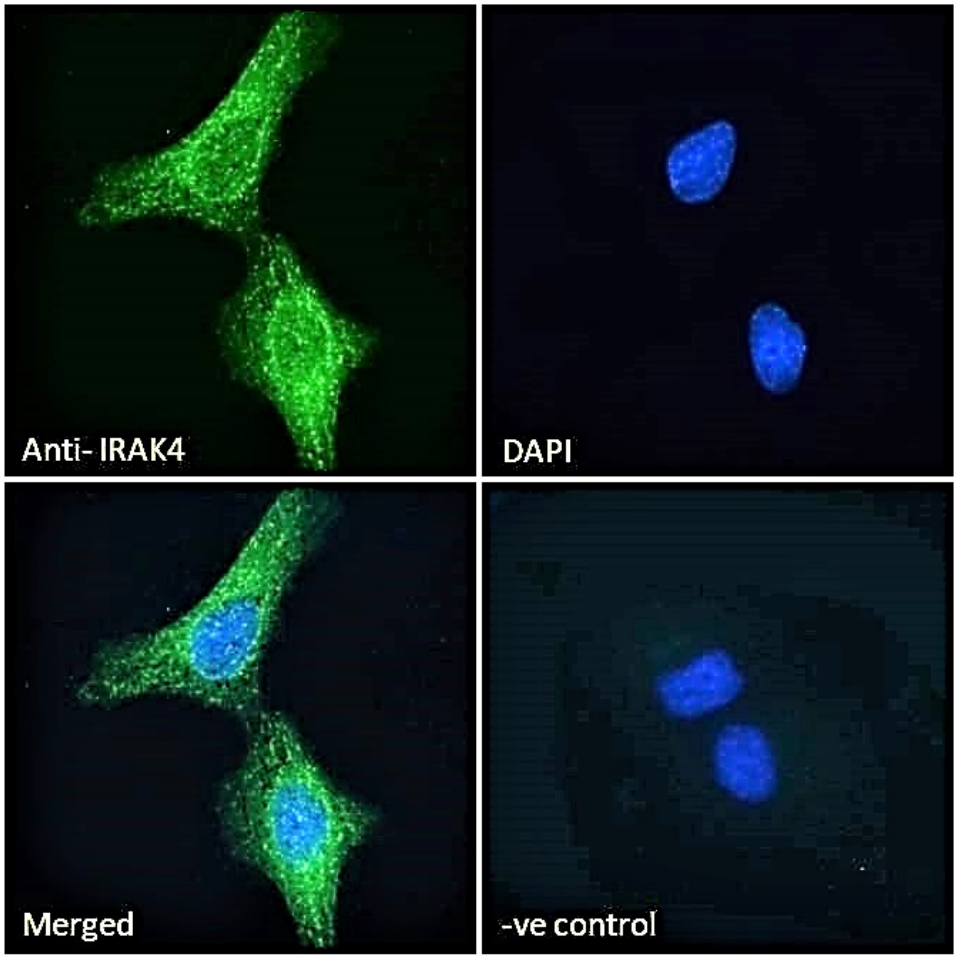
Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

Species Reactivity

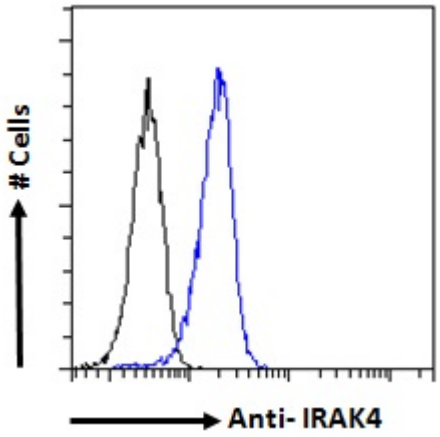
Tested: Human
Expected from sequence similarity: Human, Mouse



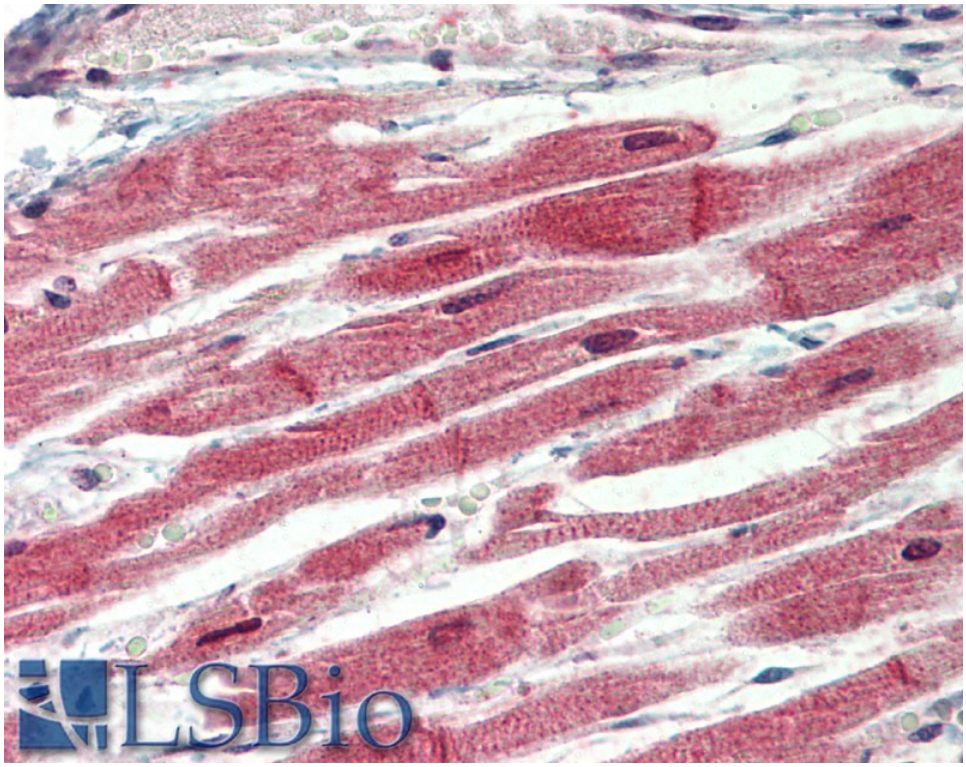
EB06619 (1µg/ml) staining of HeLa (A) and Jurkat (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



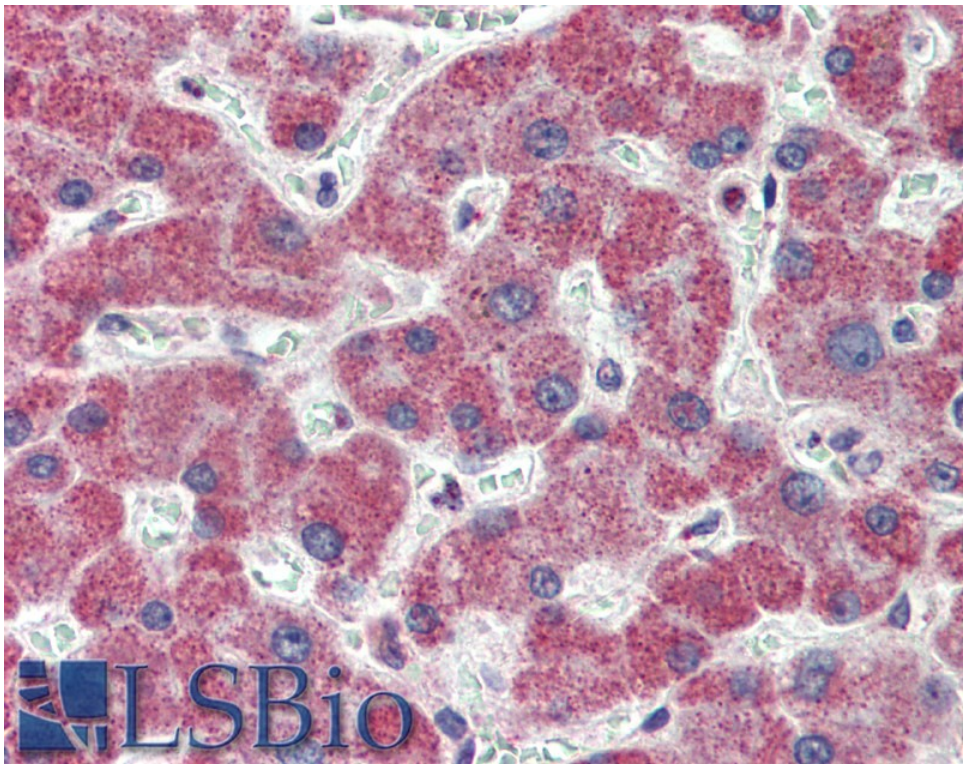
EB06619 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and microtubule staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06619 Flow cytometric analysis of paraformaldehyde fixed HeLa 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.



EB06619 (3.75µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06619 (3.75µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.