abcam

Product datasheet

Anti-Tec antibody - C-terminal ab191013

3 Images

Overview

Product name Anti-Tec antibody - C-terminal

Description Rabbit polyclonal to Tec - C-terminal

Host species Rabbit

Tested applications
Suitable for: WB, IHC-P
Species reactivity
Reacts with: Rat, Human

Predicted to work with: Mouse

Immunogen Synthetic peptide corresponding to Human Tec aa 600 to the C-terminus (C terminal).

Database link: P42680

Run BLAST with
Run BLAST with

Positive control Rat liver, rat spleen, rat kidney, HeLa and Jurkat lysates; Human intestinal cancer and rat liver

tissues.

General notesThe Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide

Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Sodium phosphate

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

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The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab191013 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 0.5 μg/ml. Predicted molecular weight: 73 kDa.
IHC-P		Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

Non-receptor tyrosine kinase that contributes to signaling from many receptors and participates as a signal transducer in multiple downstream pathways, including regulation of the actin cytoskeleton. Plays a redundant role to ITK in regulation of the adaptive immune response. Regulates the development, function and differentiation of conventional T-cells and nonconventional NKT-cells. Required for TCR-dependent IL2 gene induction. Phosphorylates DOK1, one CD28-specific substrate, and contributes to CD28-signaling. Mediates signals that negatively regulate IL2RA expression induced by TCR cross-linking. Plays a redundant role to BTK in BCR-signaling for B-cell development and activation, especially by phosphorylating STAP1, a BCR-signaling protein. Required in mast cells for efficient cytokine production. Involved in both growth and differentiation mechanisms of myeloid cells through activation by the granulocyte colony-stimulating factor CSF3, a critical cytokine to promoting the growth, differentiation, and functional activation of myeloid cells. Participates in platelet signaling downstream of integrin activation. Cooperates with JAK2 through reciprocal phosphorylation to mediate cytokine-driven activation of FOS transcription. GRB10, a negative modifier of the FOS activation pathway, is another substrate of TEC. TEC is involved in G protein-coupled receptorand integrin-mediated signalings in blood platelets. Plays a role in hepatocyte proliferation and liver regeneration and is involved in HGF-induced ERK signaling pathway. TEC regulates also FGF2 unconventional secretion (endoplasmic reticulum (ER)/Golgi-independent mechanism) under various physiological conditions through phosphorylation of FGF2 'Tyr-215'. May also be involved in the regulation of osteoclast differentiation.

Tissue specificity

Expressed in a wide range of cells, including hematopoietic cell lines like myeloid, B-, and T-cell lineages.

Sequence similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily.

Contains 1 Btk-type zinc finger.

Contains 1 PH domain.

Contains 1 protein kinase domain.

Contains 1 SH2 domain. Contains 1 SH3 domain.

Domain

The PH domain mediates the binding to inositol polyphosphate and phosphoinositides, leading to its targeting to the plasma membrane. It is extended in the BTK kinase family by a region designated the TH (Tec homology) domain, which consists of about 80 residues preceding the SH3 domain.

The SH3 domain is essential for its targeting to activated CD28 costimulatory molecule.

Post-translational

Following B-cell or T-cell receptors engagement, translocates to the plasma membrane where it

modifications

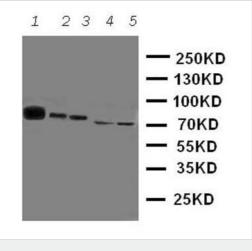
Cellular localization

gets phosphorylated at Tyr-519. Undergoes also tyrosine phosphorylation during platelet

activation.

Cytoplasm. Cell membrane. Cytoplasm, cytoskeleton. Following B-cell or T-cell receptors activation by antigen, translocates to the plasma membrane through its PH domain. Thrombin and integrin engagement induces translocation of TEC to the cytoskeleton during platelet activation. In cardiac myocytes, assumes a diffuse intracellular localization under basal conditions but is recruited to striated structures upon various stimuli, including ATP (By similarity).

Images



Western blot - Anti-Tec antibody - C-terminal (ab191013)

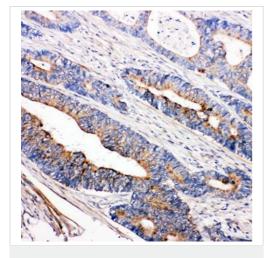
All lanes: Anti-Tec antibody - C-terminal (ab191013) at 0.5 µg/ml

Lane 1 : Rat liver tissue lysateLane 2 : Rat spleen tissue lysateLane 3 : Rat kidney tissue lysate

Lane 4 : HeLa cell lysate

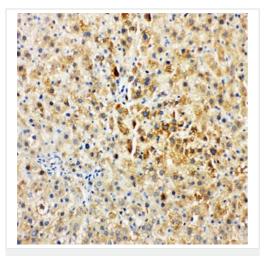
Lane 5 : Jurkat cell lysate

Predicted band size: 73 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Tec antibody - C-terminal (ab191013)

Immunohistochemical analysis of paraffin-embedded Human intestinal cancer tissue labeling Tec with ab191013 at 1 µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Tec antibody - C-terminal (ab191013)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling Tec with ab191013 at 1 μ g/ml.

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