

TEC Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21065a**Specification**

TEC Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P42680
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	73581

TEC Antibody (Center) - Additional Information**Gene ID** 7006**Other Names**

Tyrosine-protein kinase Tec, TEC, PSCTK4

Target/Specificity

This TEC antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 254-288 amino acids from the Central region of human TEC.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TEC Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TEC Antibody (Center) - Protein Information**Name** TEC**Synonyms** PSCTK4

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 receptor- and 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.

Cellular Location

Cytoplasm. Cell membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton.

Note=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).

Tissue Location

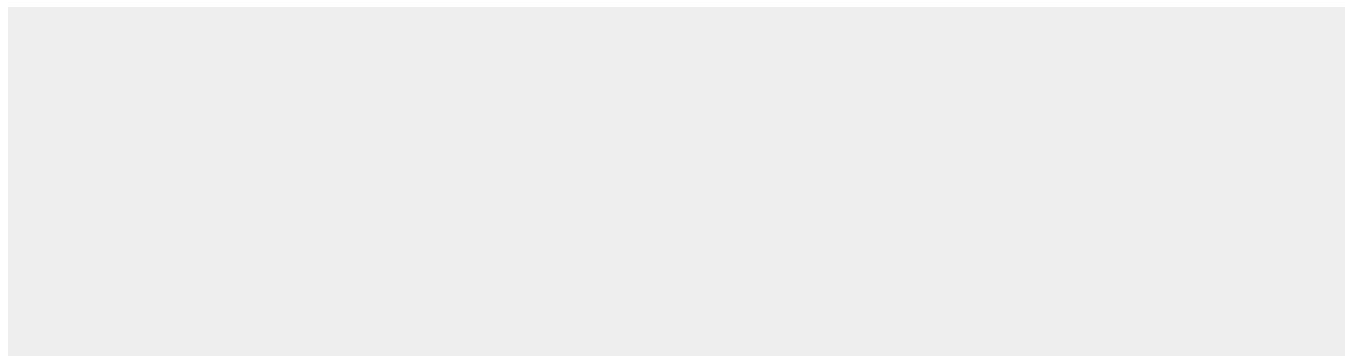
Expressed in a wide range of cells, including hematopoietic cell lines like myeloid, B-, and T-cell lineages

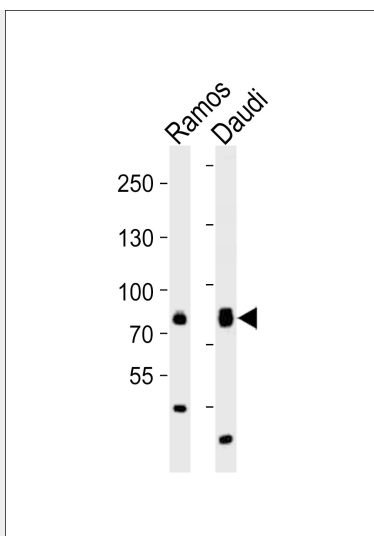
TEC Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TEC Antibody (Center) - Images





Western blot analysis of lysates from Ramos, Daudi cell line (from left to right), using TEC Antibody (Center)(Cat. #AP21065a). AP21065a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

TEC Antibody (Center) - Background

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TEC Antibody (Center) - References

Sato K.,et al.Leukemia 8:1663-1672(1994).
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Tang B.,et al.Mol. Cell. Biol. 14:8432-8437(1994).
Laffargue M.,et al.Biochem. Biophys. Res. Commun. 238:247-251(1997).