

Anti-BLK (pY389) Antibody

Rabbit polyclonal antibody to BLK (pY389)

Catalog # AP60900

Product Information

Application	WB
Primary Accession	P51451
Other Accession	P16277
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57706

Additional Information

Gene ID	640
Other Names	Tyrosine-protein kinase Blk; B lymphocyte kinase; p55-Blk
Target/Specificity	Recognizes endogenous levels of BLK (pY389) protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	BLK
Function	Non-receptor tyrosine kinase involved in B-lymphocyte development, differentiation and signaling (By similarity). B-cell receptor (BCR) signaling requires a tight regulation of several protein tyrosine kinases and phosphatases, and associated coreceptors (By similarity). Binding of antigen to the B-cell antigen receptor (BCR) triggers signaling that ultimately leads to B-cell activation (By similarity). Signaling through BLK plays an important role in transmitting signals through surface immunoglobulins and supports the pro-B to pre-B transition, as well as the signaling for growth arrest and apoptosis downstream of B-cell receptor (By similarity). Specifically binds and phosphorylates CD79A at 'Tyr-188'and 'Tyr-199', as well as CD79B at 'Tyr-196' and 'Tyr-207' (By similarity). Also phosphorylates the immunoglobulin G receptors FCGR2A, FCGR2B and FCGR2C (PubMed: 8756631). With FYN and LYN, plays an essential role in pre-B- cell receptor (pre-BCR)-mediated NF-kappa-B activation (By similarity). Also contributes to BTK activation by indirectly stimulating BTK intramolecular autophosphorylation (By similarity).

In pancreatic islets, acts as a modulator of beta-cells function through the up-regulation of PDX1 and NKX6-1 and consequent stimulation of insulin secretion in response to glucose (PubMed:[19667185](#)). Phosphorylates CGAS, promoting retention of CGAS in the cytosol (PubMed:[30356214](#)).

Cellular Location

Cell membrane; Lipid-anchor. Note=Present and active in lipid rafts. Membrane location is required for the phosphorylation of CD79A and CD79B (By similarity).

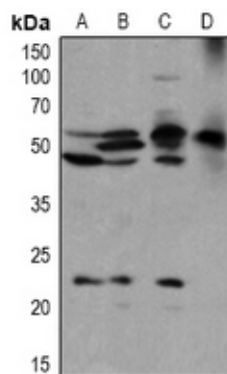
Tissue Location

Expressed in lymphatic organs, pancreatic islets, Leydig cells, striate ducts of salivary glands and hair follicles

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BLK. The exact sequence is proprietary.

Images



Western blot analysis of BLK (pY389) expression in HEK293T (A), PANC1 (B), CT26 (C), rat spleen (D) whole cell lysates.

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