

## Product datasheet for **TA300020S**

### BLK Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:1000, IHC: 1:50~100
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This BLK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human BLK.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	BLK proto-oncogene, Src family tyrosine kinase
Database Link:	<a href="#">NP_001706</a> <a href="#">Entrez Gene 12143 Mouse</a> <a href="#">Entrez Gene 640 Human</a> <a href="#">P51451</a>



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**Background:**

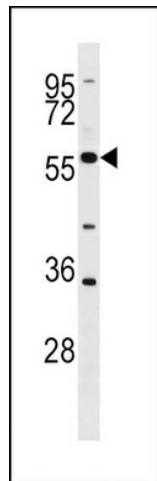
Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the  $\gamma$  phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.

**Synonyms:**

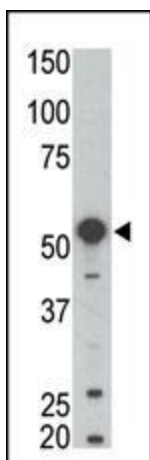
MODY11

**Protein Families:**

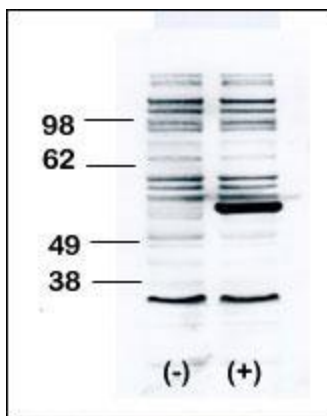
Druggable Genome, Protein Kinase

**Product images:**

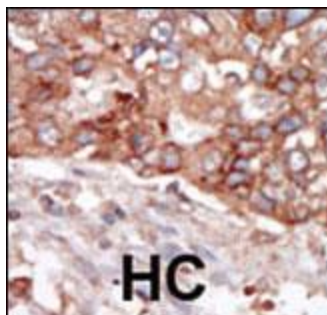
BLK Antibody (G1) (Cat. #[TA300020]) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the BLK antibody detected the BLK protein (arrow).



Western blot analysis of anti-BLK Pab (Cat. # [TA300020]) in mouse kidney tissue lysate. BLK (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western blot analysis of anti-BLK Pab (Cat. # [TA300020]) transiently transfected HEK-293 cell line lysate (1ug/lane). BLK pab (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

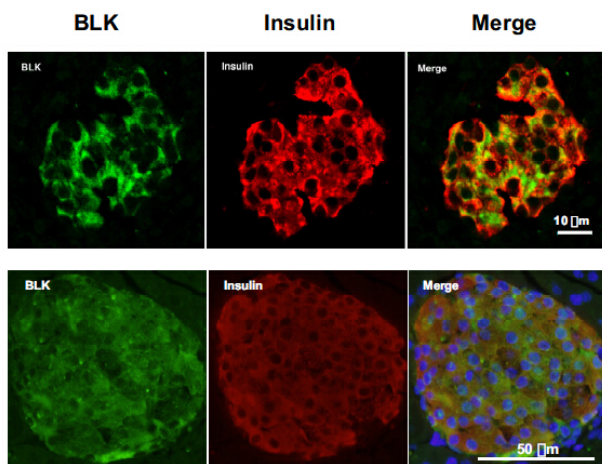


Figure from citation: Immunofluorescence of BLK protein level by using anti-BLK antibody in human (Top) and murine (Bottom) islets. Dilution: 1:50 [View Citation](#)

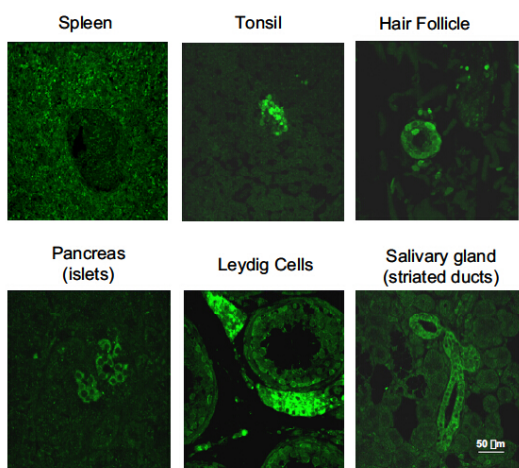


Figure from citation: Immunofluorescence of BLK protein level by using anti-BLK antibody in a tissue array of normal human tissues: spleen, tonsil, hari follicle, pancreas, leydig cells, salivary gland. Dilution: 1:50 [View Citation](#)