

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Brk in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) YES, rhFyn, and rhSRC is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Brk Met1-Arg70 Accession # Q13882
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

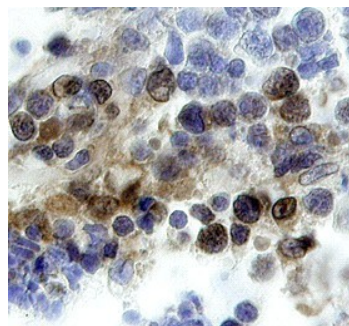
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Brk
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



Brk in Human Lymphoma. Brk was detected in immersion fixed paraffin-embedded sections of human lymphoma using 15 µg/mL Goat Anti-Human Brk Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3966) overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

BRK (breast tumor kinase; also known as PTK6) is a 50 kDa, intracellular non-receptor tyrosine kinase. It was first identified in human breast tumor cell lines, is frequently over-expressed in primary breast tumors, and is absent from normal breast tissue. Other sites of expression include colon, small intestine and prostate. Human BRK is 451 amino acids (aa) in length. It contains one SH3 domain (aa 12-69), one SH2 domain (aa 77-170) and a Tyr-kinase catalytic domain (aa 183-444). There are two potential isoforms. The first has a 66 aa extension on the N-terminus, while the second shows the same extension plus a four aa insert after Arg 277. Over aa 1-70, human BRK is 79% aa identical to mouse Brk.