

# Monoclonal Antibody to BLK

Cat. #: Mab-606074B

## Description:

BLK ( B lymphoid tyrosine kinase), with 505-amino acid protein (about 56KDa), belongs to the Src non-receptor tyrosine kinases family. Different subcellular localizations of Src-family kinases may be important for the regulation of specific cellular processes such as mitogenesis, cytoskeletal organization, and membrane trafficking. Blk is expressed exclusively by B lymphocytes and it is thought to function in a signal transducing pathway specific to this lineage. B lymphoid expression of an active Blk mutant caused proliferation of B progenitor cells and enhanced responsiveness of these cells to interleukin 7. Thus, sustained activation of Blk induces responses normally associated with the pre-BCR.

## Immunogen/Specificity:

Ni-NTA purified truncated recombinant BLK expressed in E. Coli strain BL21 (DE3)

## Applications :

Western Blot: 1: 500- 1: 2,000

IHC(P): 1: 500- 1: 2,000

IHC(F): 1: 500- 1: 2,000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

## Formulation

Crude ascites.

## Reference:

1. Theresa Tretter, Ashley E. Ross, Dominic I. Dordai

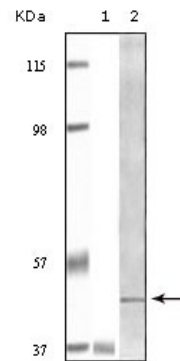
J. Exp. Med., Dec 2003; 198: 1863.

Clone Number: 9D10B7

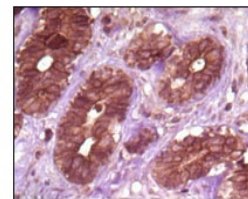
Isotype: IgG1

Species: Human

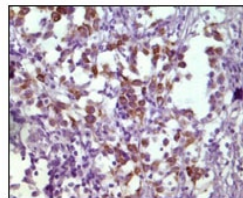
Storage and Stability: stored at -20 C



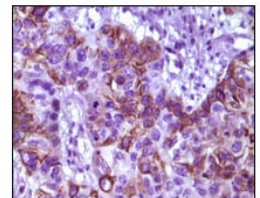
**Figure 1:** Western blot analysis using anti-Human BLK monoclonal antibody against truncated BLK recombinant protein(1) and Raji cell lysate(2).



Human breast tissue



Human lymph tissue



Human skin carcinoma

**Figure 2:** Immunohistochemical analysis of paraffin-embedded Human breast tissue, lymph tissue and skin carcinoma tissue, showing membrane localization using BLK antibody with DAB staining.