

Anti-BTK Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

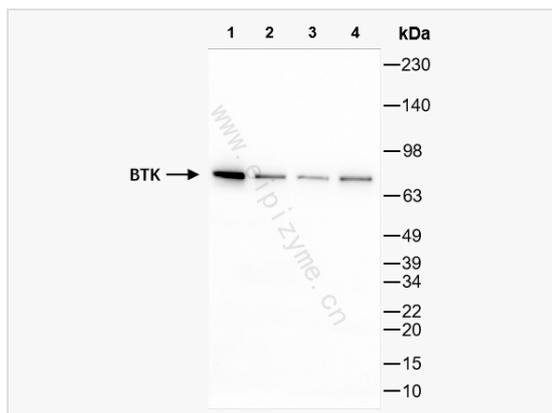
Catalog # R016135

Product Information

| | |
|-------------|---|
| Application | WB, ELISA |
| Reactivity | Human |
| Dilution | WB 1:1,000~1:2,000 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 92Q49A07 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human BTK |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-BTK Rabbit mAb [92Q49A07] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|-------------------|---|
| Synonyms | AGMX1; AT; ATK; BPK; IGHD3; IMD1; PSCTK1; XLA; xid; BTK_HUMAN; BTK; Agammaglobulinemia tyrosine kinase (ATK); B-cell progenitor kinase (BPK); Bruton tyrosine kinase; 2.7.10.2; BTK_MOUSE; Kinase EMB. |
| Calculated MW | Calculated MW: 76 kDa; Observed MW: 76 kDa |
| Uniprot ID | Q06187 |
| Gene ID | 695 |
| Background | The protein encoded by this gene plays a crucial role in B-cell development. Mutations in this gene cause X-linked agammaglobulinemia type 1, which is an immunodeficiency characterized by the failure to produce mature B lymphocytes, and associated with a failure of Ig heavy chain rearrangement. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013] |
| Cellular Location | Cytoplasm Cell membrane Peripheral membrane protein Nucleus Membrane raft In steady state, BTK is predominantly cytosolic. Following B-cell receptor (BCR) engagement by antigen, translocates to the plasma membrane through its PH domain. Plasma membrane localization is a critical step in the activation of BTK. A fraction of BTK also shuttles between the nucleus and the cytoplasm, and nuclear export is mediated by the nuclear export receptor CRM1. |
| Tissue Location | Predominantly expressed in B-lymphocytes. |



Western Blot - Anti-BTK Rabbit mAb [92Q49A07]

All lanes: R016135 at 1:1,000 dilution

Lane 1: Hel (Human erythroLeukemia suspension cell) whole cell lysates

Lane 2: Ball-1 (Human B lymphocyte acute leukemia cell) whole cell lysates

Lane 3: K562 (Human chronic myeloid leukemia cell) whole cell lysates

Lane 4: THP-1 (Human monocytic leukemia cell) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 76 kDa

Observed band size: 76 kDa

Developed using the ECL technique (Cat. No. SQ201).