

## Rabbit BTK Polyclonal Antibody | anti-BTK antibody

BTK Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                           |
|-----------|--------|-------------------|--------------------------------------------------------|
| AAA301462 | Rabbit | Human, Mouse, Rat | Immunofluorescence, Immunohistochemistry, Western Blot |

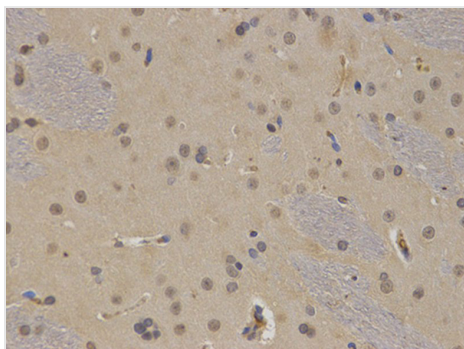
### PRODUCT SYNONYMS

BTK; Polyclonal Antibody; BTK Antibody; AGMX1; AT; ATK; BPK; IMD1; anti-BTK antibody

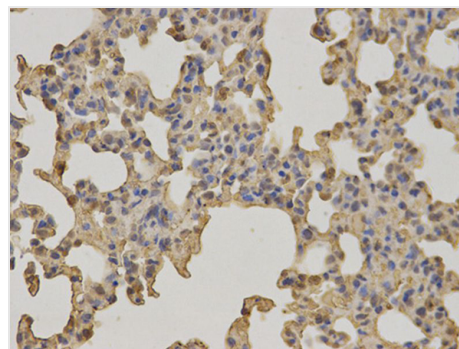
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                     |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                              |
| Reactivity                                    | Human, Mouse, Rat                                                                                                                   |
| Clonality                                     | Polyclonal                                                                                                                          |
| Specificity                                   | The antibody detects endogenous level of total BTK protein.                                                                         |
| Purity/Purification                           | Antibodies were purified by affinity purification using immunogen.                                                                  |
| Form/Format                                   | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                 | 1.0 mg/ml (varies by lot)                                                                                                           |
| Sequence Length                               | 659                                                                                                                                 |
| Applicable Applications for anti-BTK antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                              |
| Immunogen Type                                | Recombinant Protein                                                                                                                 |
| Immunogen Description                         | Recombinant protein of human BTK.                                                                                                   |
| Target Name                                   | BTK                                                                                                                                 |
| Preparation and Storage                       | Store at -20 degree C                                                                                                               |

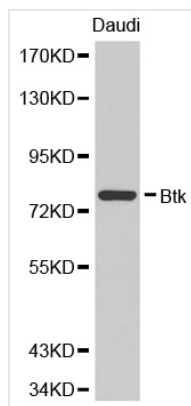
### IMAGES


**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded rat brain using BTK antibody at dilution of 1:100 (400x lens).


**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded rat lung using BTK antibody at dilution of 1:100 (400x lens).



**WB (Western Blot)**  
Western blot analysis of extracts of Daudi cell lines, using BTK antibody.

### ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-BTK antibody | Bruton's tyrosine kinase (Btk) is a member of the Btk/Tec family of cytoplasmic tyrosine kinases. Like other Btk family members, it contains a pleckstrin homology (PH) domain and Src homology SH3 and SH2 domains. Btk plays an important role in B cell development (1,2). Activation of B cells by various ligands is accompanied by Btk membrane translocation mediated by its PH domain binding to phosphatidylinositol-3,4,5-trisphosphate (3-5). The membrane-localized Btk is active and associated with transient phosphorylation of two tyrosine residues, Tyr551 and Tyr223. Tyr551 in the activation loop is transphosphorylated by the Src family tyrosine kinases, leading to autophosphorylation at Tyr223 within the SH3 domain, which is necessary for full activation (6,7). The activation of Btk is negatively regulated by PKC $\beta$ through phosphorylation of Btk at Ser180, which results in reduced membrane recruitment, transphosphorylation, and subsequent activation (8). The PKC inhibitory signal is likely to be a key determinant of the B cell receptor signaling threshold to maintain optimal Btk activity (8). |
| Product Categories/Family for anti-BTK antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | 4557377                                   |
| NCBI GeneID                      | 695                                       |
| NCBI Accession #                 | NP_000052.1                               |
| NCBI GenBank Nucleotide #        | NM_000061.2                               |
| UniProt Accession #              | Q06187; Q32ML5; B2RAW1                    |
| Molecular Weight                 | 79,937 Da                                 |
| NCBI Official Full Name          | tyrosine-protein kinase BTK isoform 1     |
| NCBI Official Synonym Full Names | Bruton agammaglobulinemia tyrosine kinase |
| NCBI Official Symbol             | BTK                                       |
| NCBI Official Synonym Symbols    | AT; ATK; BPK; XLA; IMD1; AGMX1; PSCTK1    |
| NCBI Protein Information         | tyrosine-protein kinase BTK               |
| UniProt Protein Name             | Tyrosine-protein kinase BTK               |
| UniProt Gene Name                | BTK                                       |
| UniProt Synonym Gene Names       | AGMX1; ATK; BPK; ATK; BPK                 |
| UniProt Entry Name               | BTK_HUMAN                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/btk-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/301462>