

Product datasheet for TA336560

OriGene Technologies, Inc.

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BTK Mouse Monoclonal Antibody [Clone ID: 7F12H4]

Product data:

Product Type: Primary Antibodies

Clone Name: 7F12H4

Applications: ICC/IF, IHC, WB

Recommended Dilution: Immunohistochemistry: 1:10-1:500, Immunocytochemistry/ Immunofluorescence: 1:200-

1:1000, Western Blot: 1:500-1:2000, Immunohistochemistry-Paraffin: 1:200-1:1000

Reactivity: Human, Primate

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Purified recombinant fragment of BTK expressed in E. coli. [UniProt# Q06187]

Formulation: PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid

freeze-thaw cycles.

Concentration: lot specific

Purification: Ammonium sulfate precipitation

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 77 kDa

Gene Name: Bruton tyrosine kinase

Database Link: NP 000052

Entrez Gene 695 Human

O06187





Background: BTK, also known as Brutons tyrosine kinase, is a member of the BTK/Tec family of cytoplasmic

tyrosine kinases. All members of the family contain SH3 and SH2 domains and, with the exception of Txk and Dsrc28C, also contain a pleckstrin homology (PH) and a Tec homology (TH) domain in their amino termini.BTK plays an important role in B cell development. 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. The membrane located 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 kinase, leading to autophosphorylation at Tyr223 within the SH3 domain, which is necessary for full activation.

Synonyms: AGMX1; AT; ATK; BPK; IMD1; PSCTK1; XLA

Note: This BTK (7F12H4) antibody is useful for Western blot,

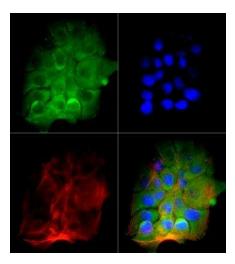
Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded

sections and ELISA.

Protein Families: Druggable Genome, Protein Kinase

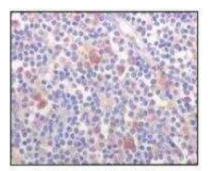
Protein Pathways: B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Primary immunodeficiency

Product images:

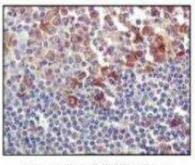


Immunocytochemistry/Immunofluorescence: BTK Antibody (7F12H4) TA336560 - The BTK antibody was tested in A431 cells against DyLight 488 (Green). Actin and nuclei were counterstained for Phalloidin (Red) and DAPI (Blue), respectively.

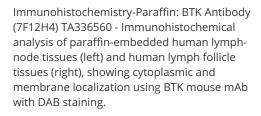


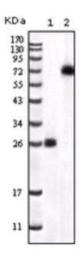




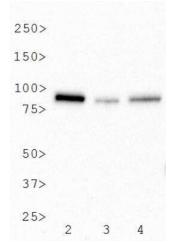


Human lymph follicle tissue





Western Blot: BTK Antibody (7F12H4) TA336560 - Analysis of BTK expression in 1) truncated BTK recombinant protein and 2) K562 cell lysate.



Western Blot: BTK Antibody (7F12H4) TA336560 - Analysis of BTK expression in 2) Raji, 3) A431 whole cell lysates and 4) human tonsil tissue extract.