OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CF501094

BTK Mouse Monoclonal Antibody [Clone ID: OTI3A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3A2
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100, Flow 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human BTK (NP_000052) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	76.3 kDa
Gene Name:	Homo sapiens Bruton tyrosine kinase (BTK), transcript variant 1, mRNA.
Database Link:	NP_000052 Entrez Gene 12229 MouseEntrez Gene 367901 RatEntrez Gene 695 Human Q06187

View online »

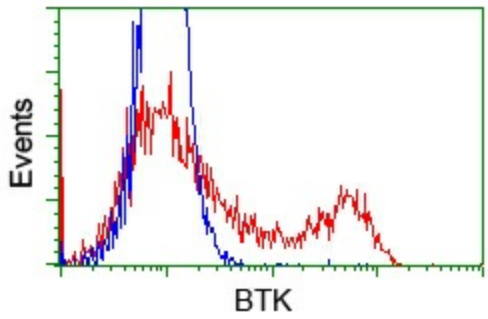
Background: The protein encoded by this gene plays a crucial role in B-cell development. Mutations in this gene cause X-linked agammaglobulinemia type 1, which is an immunodeficiency characterized by the failure to produce mature B lymphocytes, and associated with a failure of Ig heavy chain rearrangement.

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

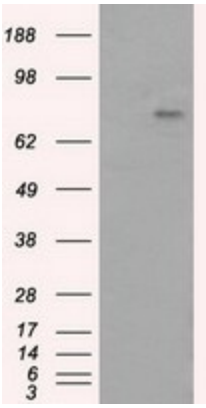
Protein Families: Druggable Genome, Protein Kinase

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

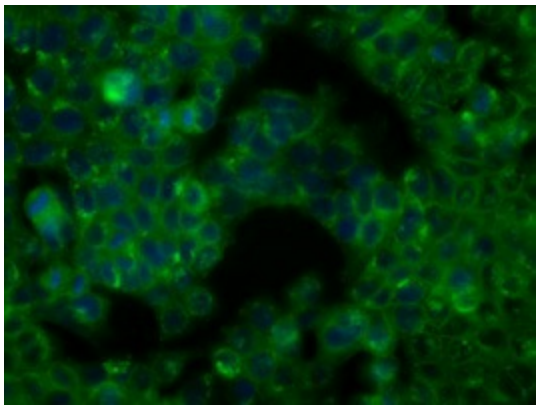
Product images:



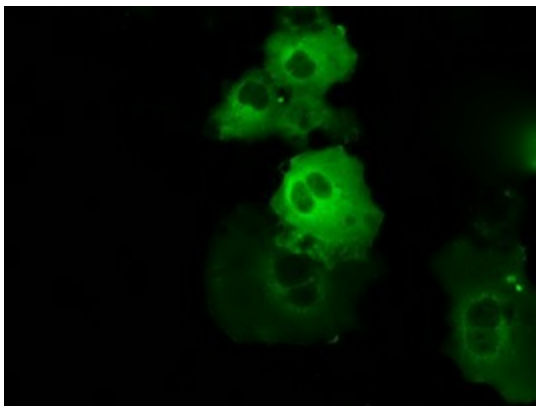
HEK293T cells transfected with either pCMV6-ENTRY BTK ([RC211582]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-BTK mouse monoclonal ([TA501094]), and then analyzed by flow cytometry.



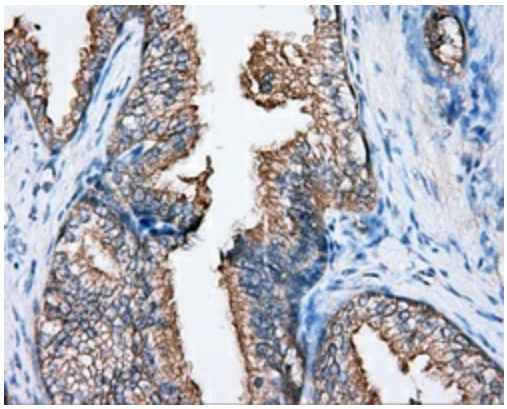
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BTK (Cat# [RC211582], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BTK(Cat# [TA501094]). Positive lysates [LY424947] (100ug) and [LC424947] (20ug) can be purchased separately from OriGene.



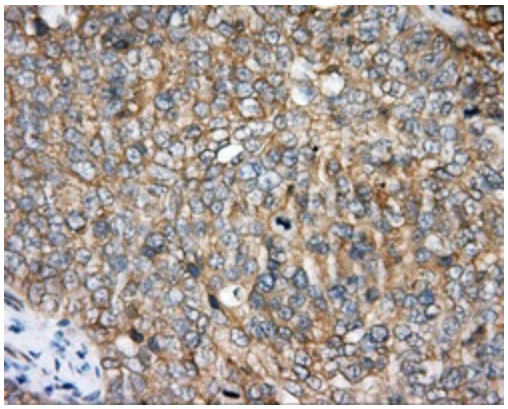
Immunofluorescent staining of HT29 cells using anti-BTK mouse monoclonal antibody ([TA501094]).



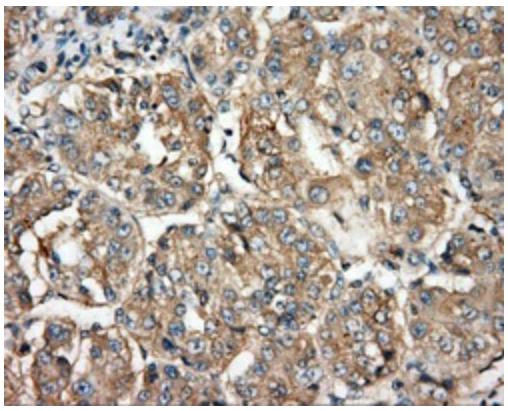
Anti-BTK mouse monoclonal antibody ([TA501094]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BTK ([RC211582]).



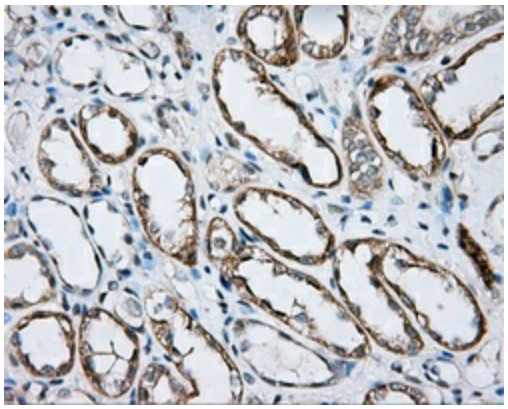
Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-BTK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501094], Dition 1:50)



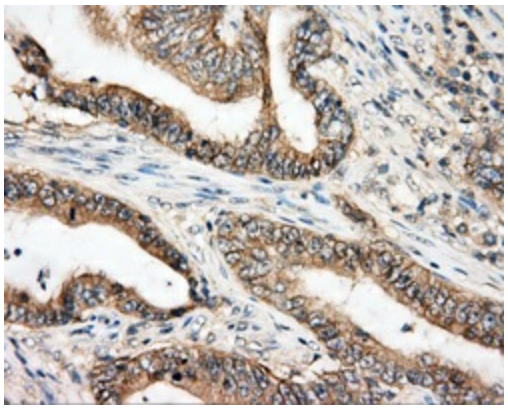
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-BTK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501094], Dilution 1:50)



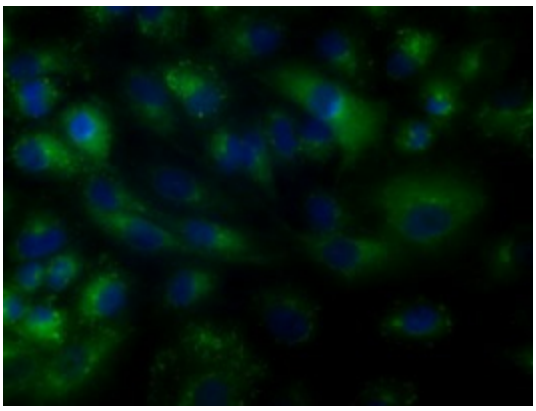
Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-BTK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501094], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Kidney tissue within the normal limits using anti-BTK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501094], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-BTK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501094], Dilution 1:50)



Immunofluorescent staining of A549 cells using anti-BTK mouse monoclonal antibody ([TA501094]).