

## Product datasheet for **TA501094M**

### BTK Mouse Monoclonal Antibody [Clone ID: OTI3A2]

#### Product data:

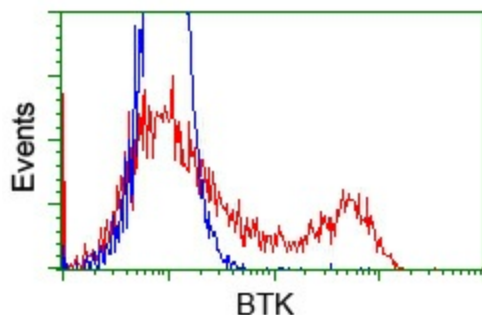
Product Type:	Primary Antibodies
Clone Name:	OTI3A2
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100, Flow 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human BTK (NP_000052) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
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:	Bruton tyrosine kinase
Database Link:	<a href="#">NP_000052</a> <a href="#">Entrez Gene 12229 Mouse</a> <a href="#">Entrez Gene 367901 Rat</a> <a href="#">Entrez Gene 695 Human</a> <a href="#">Q06187</a>
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


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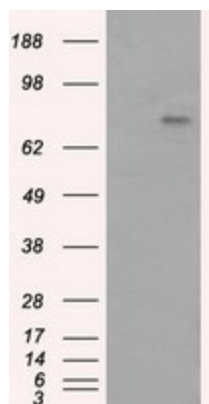
**Protein Families:** Druggable Genome, Protein Kinase

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

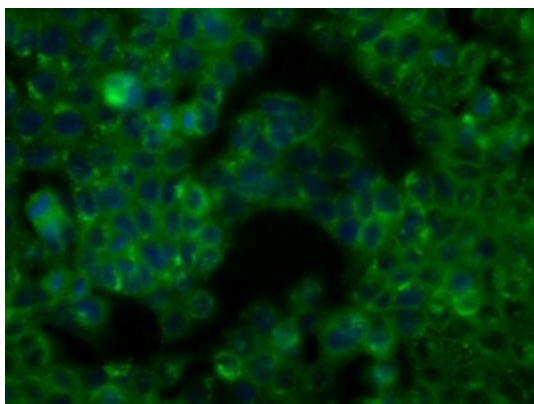
**Product images:**



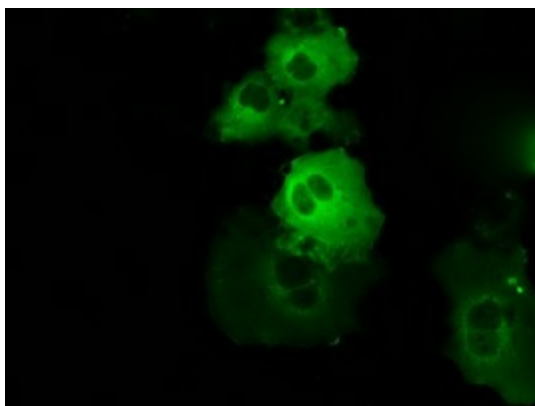
HEK293T cells transfected with either pCMV6-ENTRY BTK ([RC211582]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-BTK mouse monoclonal ([TA501094]), and then analyzed by flow cytometry.



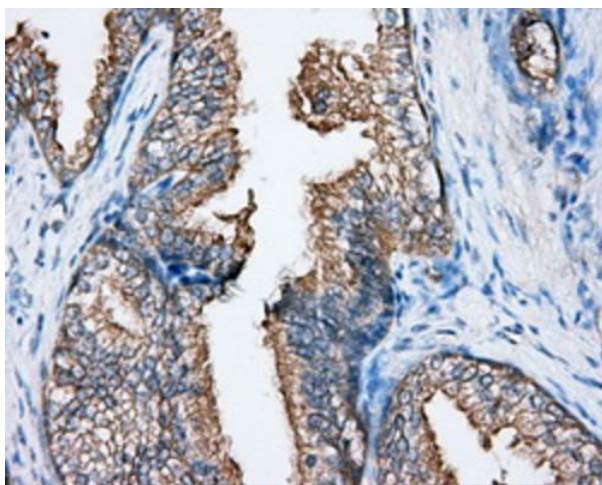
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BTK (Cat# [RC211582], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BTK (Cat# [TA501094]). Positive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



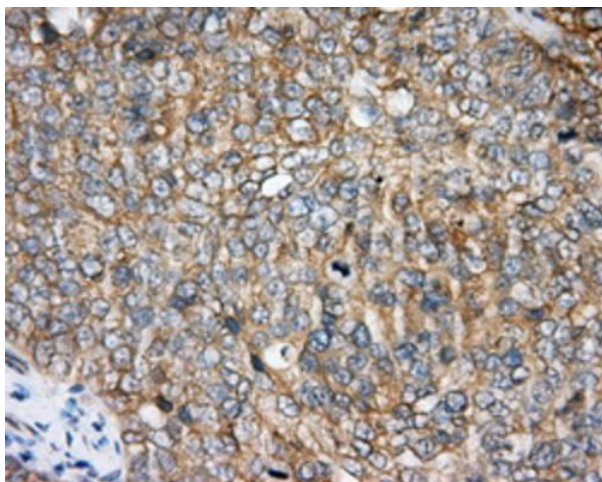
Immunofluorescent staining of HT29 cells using anti-BTK mouse monoclonal antibody ([TA501094]).



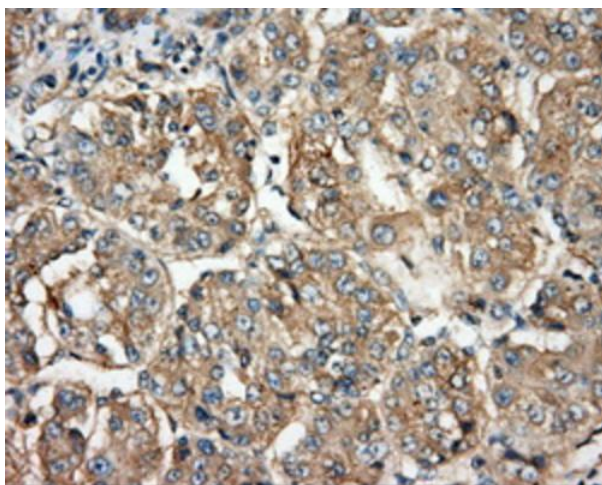
Anti-BTK mouse monoclonal antibody ([TA501094]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BTK ([RC211582]).



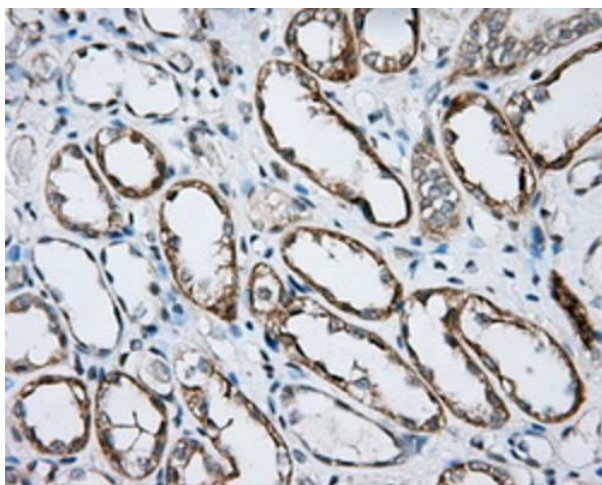
Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-BTK mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



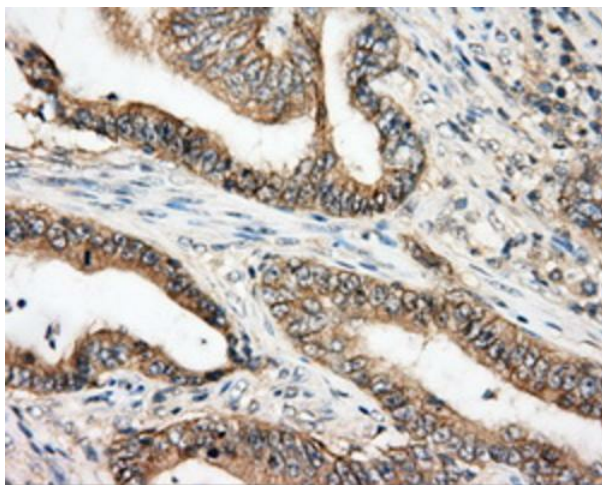
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-BTK mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-BTK mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

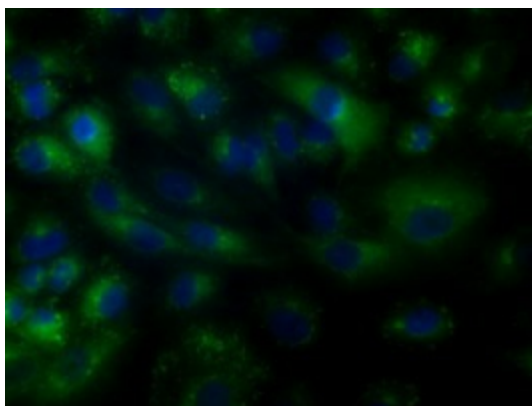


Immunohistochemical staining of paraffin-embedded Kidney tissue within the normal limits using anti-BTK mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-BTK mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.





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