

## Product datasheet for **CF501093**

### **BTK Mouse Monoclonal Antibody [Clone ID: OTI6H9]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI6H9
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:2000, IHC 1:50, IF 1:100, Flow 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2b
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human BTK (NP_000052) produced in HEK293T cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	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)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	76.3 kDa
<b>Gene Name:</b>	Homo sapiens Bruton tyrosine kinase (BTK), transcript variant 1, mRNA.
<b>Database Link:</b>	<a href="#">NP_000052</a> <a href="#">Entrez Gene 12229</a> <a href="#">MouseEntrez Gene 367901</a> <a href="#">RatEntrez Gene 695</a> <a href="#">Human</a>
<b>Background:</b>	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.
<b>Synonyms:</b>	AGMX1; AT; ATK; BPK; IMD1; PSCTK1; XLA

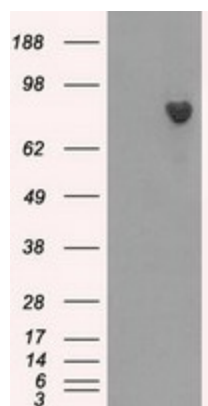


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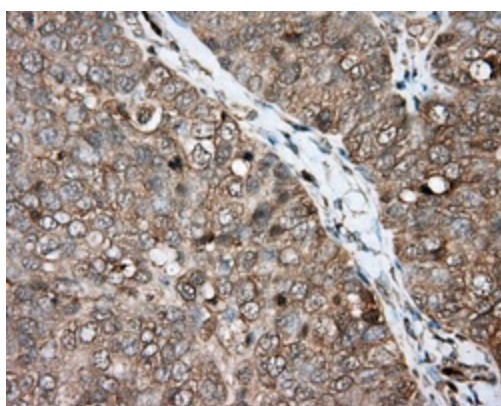
**Protein Families:** Druggable Genome, Protein Kinase

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

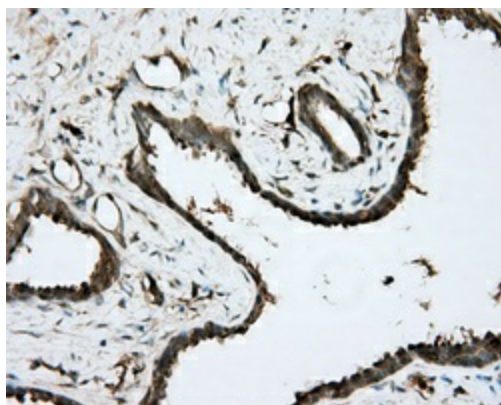
**Product images:**



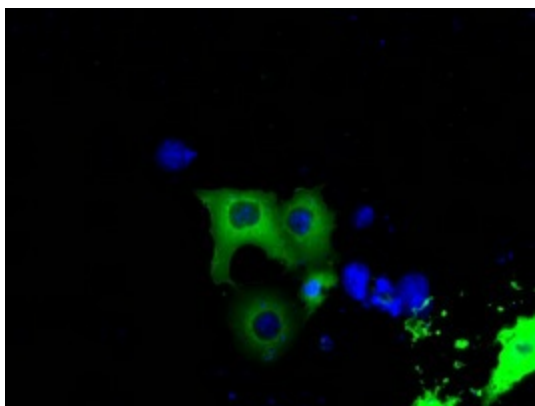
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BTK ([RC211582], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BTK. Positive lysates [LY424947] (100ug) and [LC424947]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



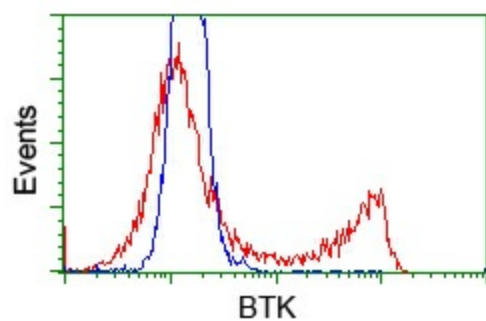
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-BTK mouse monoclonal antibody. ([TA501092], Dilution 1:50; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min)



Immunohistochemical staining of paraffin-embedded Carcinoma of prostate tissue using anti-BTK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501093], Dilution 1:50)



Anti-BTK mouse monoclonal antibody (TA501093) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BTK (RC211582).



HEK293T cells transfected with either pCMV6-ENTRY BTK (RC211582) (Red) or empty vector control plasmid (Blue) were immunostained with anti-BTK mouse monoclonal (TA501093), and then analyzed by flow cytometry.