

## Product datasheet for **AP55690PU-S**

### **BTK pTyr223 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	<b>Western blot:</b> 1:500~1:1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of tyrosine 223 (A-L-Y(p)-D-Y) derived from Human BTK (KLH-conjugated)
Specificity:	The antibody detects endogenous levels of BTK only when phosphorylated at tyrosine 223.
Formulation:	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography using epitope-specific peptide
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	80 kDa
Gene Name:	Bruton tyrosine kinase
Database Link:	<a href="#">Entrez Gene 695 Human Q06187</a>



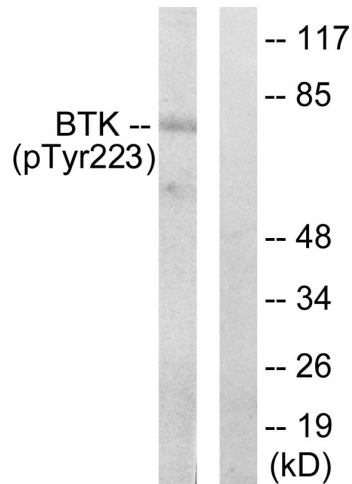
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**Background:**

Non-receptor tyrosine kinase indispensable for B lymphocyte development, differentiation and signaling. Binding of antigen to the B-cell antigen receptor (BCR) triggers signaling that ultimately leads to B-cell activation. After BCR engagement and activation at the plasma membrane, phosphorylates PLCG2 at several sites, igniting the downstream signaling pathway through calcium mobilization, followed by activation of the protein kinase C (PKC) family members. PLCG2 phosphorylation is performed in close cooperation with the adapter protein B-cell linker protein BLNK.

**Synonyms:**

Bruton tyrosine kinase, AGMX1, ATK, BPK

**Product images:**

Western blot analysis of extracts from HeLa cells treated with serum using BTK (phospho-Tyr223) Antibody. The lane on the right is treated with the antigen-specific peptide.