


### Anti-BTK (phospho Y223) antibody [EP420Y] ab68217

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **19 References** **画像数 5**

#### 製品の概要

製品名	Anti-BTK (phospho Y223) antibody [EP420Y]
製品の詳細	Rabbit monoclonal [EP420Y] to BTK (phospho Y223)
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IP, Dot blot <b>適用なし:</b> ICC/IF or IHC-P
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Mouse, Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as <b>ab214589</b> )
ポジティブ・コントロール	WB: K562 and Ramos cell lysates treated with pervanadate. IP: Ramos cell lysates treated with pervanadate. Dot Blot: BTK (phospho Y223) phospho peptide.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <b><a href="#">see here</a></b> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <b><a href="#">RabMAb<sup>®</sup> patents</a></b> .

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名 EP420Y  
アイソタイプ IgG

## アプリケーション

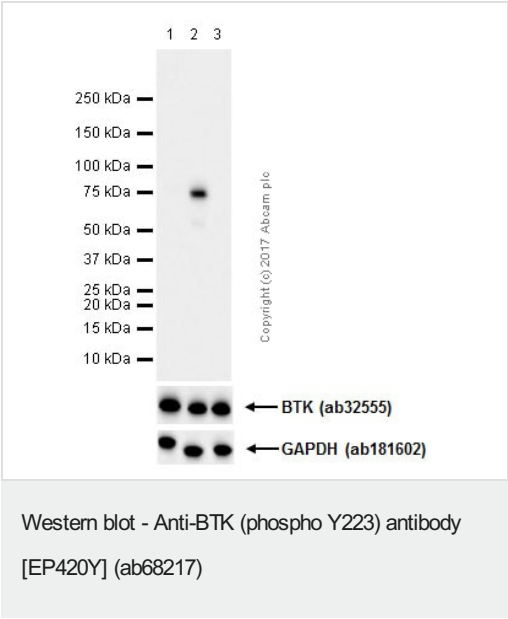
**The Abpromise guarantee** **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab68217の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/2000 - 1/10000. Detects a band of approximately 76 kDa (predicted molecular weight: 76 kDa).Can be blocked with <b><u>BTK peptide (ab214589)</u></b> . <b>For unpurified, use 1/10000 - 1/50000.</b>
IP		1/20. <b>For unpurified, use 1/40.</b>
Dot blot		Use at an assay dependent concentration.

**追加情報** Is unsuitable for ICC/IF or IHC-P.

## ターゲット情報

<b>機能</b>	Plays a crucial role in B-cell ontogeny. Transiently phosphorylates GTF2I on tyrosine residues in response to B-cell receptor cross-linking. Required for the formation of functional ARID3A DNA-binding complexes.
<b>関連疾患</b>	Defects in BTK are the cause of X-linked agammaglobulinemia (XLA) [MIM:300755]; also known as X-linked agammaglobulinemia type 1 (AGMX1) or immunodeficiency type 1 (IMD1). XLA is a humoral immunodeficiency disease which results in developmental defects in the maturation pathway of B-cells. Affected boys have normal levels of pre-B-cells in their bone marrow but virtually no circulating mature B-lymphocytes. This results in a lack of immunoglobulins of all classes and leads to recurrent bacterial infections like otitis, conjunctivitis, dermatitis, sinusitis in the first few years of life, or even some patients present overwhelming sepsis or meningitis, resulting in death in a few hours. Treatment in most cases is by infusion of intravenous immunoglobulin. Defects in BTK may be the cause of X-linked hypogammaglobulinemia and isolated growth hormone deficiency (XLA-IGHD) [MIM:307200]; also known as agammaglobulinemia and isolated growth hormone deficiency or Fleisher syndrome or isolated growth hormone deficiency type 3 (IGHD3). In rare cases XLA is inherited together with isolated growth hormone deficiency (IGHD).
<b>配列類似性</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily. Contains 1 Btk-type zinc finger. Contains 1 PH domain. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.
<b>翻訳後修飾</b>	Autophosphorylated on Tyr-223 and Tyr-551. Phosphorylation of Tyr-223 may create a docking site for a SH2 containing protein.
<b>細胞内局在</b>	Cytoplasm. Membrane. Nucleus.



**All lanes :** Anti-BTK (phospho Y223) antibody [EP420Y] (ab68217) at 1/1000 dilution

**Lane 1 :** Ramos (human Burkitt's lymphoma B lymphocyte) whole cell lysate

**Lane 2 :** Ramos treated with 1mM pervanadate for 30 min whole cell lysate

**Lane 3 :** Ramos treated with 1mM pervanadate for 30 min whole cell lysate. Then the membrane was incubated with alkaline phosphatase.

Lysates/proteins at 10 µg per lane.

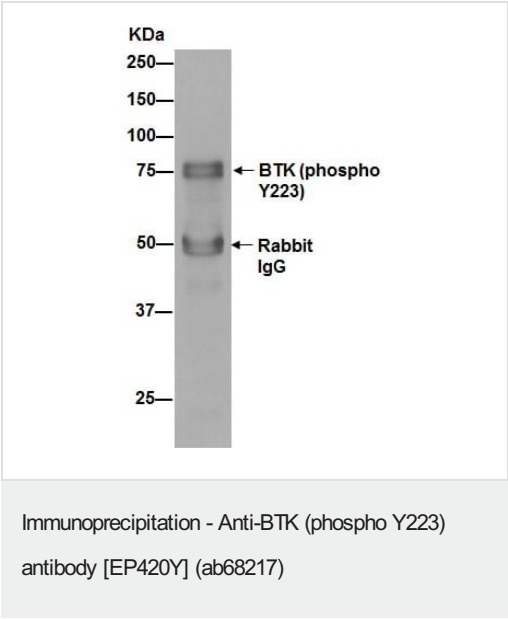
**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 76 kDa

**Observed band size:** 76 kDa

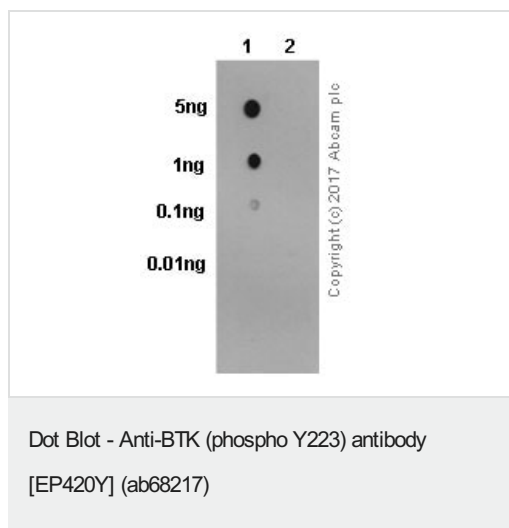
Blocking and dilution buffer: 5% NFDM/TBST.



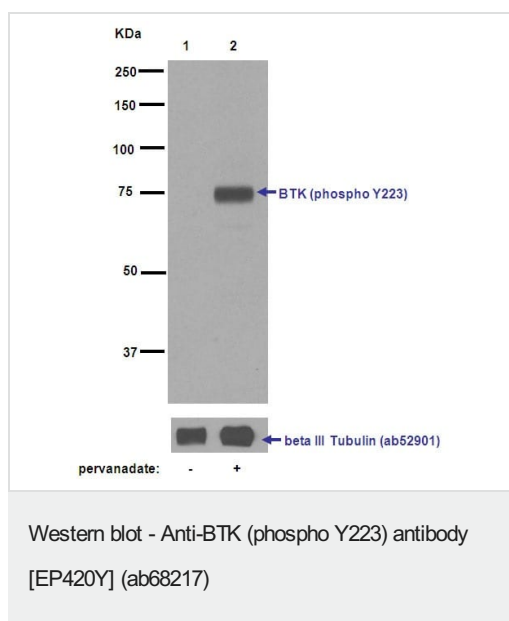
ab68217 (purified) at 1/50 immunoprecipitating BTK (phospho Y223) in Ramos cells (Lane 1) treated with 1 mM Pervanadate for 30 min. For western blotting, a HRP-conjugated anti-rabbit IgG (H+L) was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Dot blot analysis of BTK (phospho Y223) phospho peptide (Lane 1) and BTK phospho peptide (Lane 2) labeling BTK (phospho Y223) with ab68217 at a dilution of 1/1000. A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) was used as the secondary antibody at a dilution of 1/20,000. Blocking buffer: 5% NFDM/TBST. Dilution buffer: 5% NFDM /TBST.



**All lanes :** Anti-BTK (phospho Y223) antibody [EP420Y] (ab68217) at 1/10000 dilution (purified)

**Lane 1 :** Untreated K562 cell lysate

**Lane 2 :** K562 cells treated with pervanadate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 76 kDa

**Observed band size:** 76 kDa

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-BTK (phospho Y223) antibody [EP420Y] (ab68217)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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