

# Anti-BTK antibody ab25971

### 3 图像

#### 概述

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<b>产品名称</b>	Anti-BTK抗体
<b>描述</b>	兔多克隆抗体to BTK
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB, ICC/IF
<b>种属反应性</b>	<b>与反应:</b> Human
<b>免疫原</b>	Synthetic peptide, corresponding to 16 N terminal amino acids near the amino terminus of Human BTK.
<b>阳性对照</b>	U937 cell lysate.
<b>常规说明</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 性能

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<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
<b>存储溶液</b>	pH: 7.2 Preservative: 0.02% Sodium azide
<b>纯度</b>	Immunogen affinity purified
<b>纯化说明</b>	BTK Antibody is affinity chromatography purified via peptide column.
<b>克隆</b>	多克隆
<b>同种型</b>	IgG

#### 应用

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“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 73 kDa.
ICC/IF		Use a concentration of 10 µg/ml.

## 靶标

### 功能

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.

### 疾病相关

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).

### 序列相似性

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.

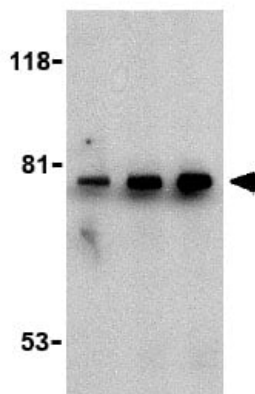
### 翻译后修饰

Autophosphorylated on Tyr-223 and Tyr-551. Phosphorylation of Tyr-223 may create a docking site for a SH2 containing protein.

### 细胞定位

Cytoplasm. Membrane. Nucleus.

## 图片



Western blot - Anti-BTK antibody (ab25971)

**Lane 1** : Anti-BTK antibody (ab25971) at 0.5 µg/ml

**Lane 2** : Anti-BTK antibody (ab25971) at 1 µg/ml

**Lane 3** : Anti-BTK antibody (ab25971) at 2 µg/ml

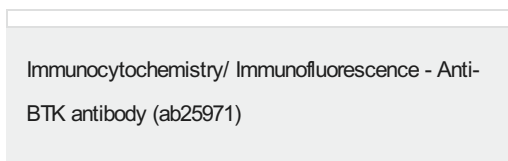
**All lanes** : for analysis of U937 cell lysate (15ug lysate/lane)

**Predicted band size:** 73 kDa



Immunocytochemistry/ Immunofluorescence - Anti-BTK antibody (ab25971)

**ab52971** at 10µg/ml staining BTK in Daudi cells by ICC/IF



Immunocytochemistry/ Immunofluorescence - Anti-BTK antibody (ab25971)

Immunofluorescence of BTK in Daudi cells using ab25971 at 10 µg/ml.

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

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