# abcam

# Product datasheet

# Anti-beta Galactosidase antibody ab616

\* ★ ★ ★ ★ ★ 30 Abreviews 116 References 1 Image

Overview

Product name Anti-beta Galactosidase antibody

**Description** Rabbit polyclonal to beta Galactosidase

Host species Rabbit

Tested applications Suitable for: WB

Unsuitable for: ICC/IF,IHC-Fr or IHC-P

Species reactivity Reacts with: Escherichia coli

Immunogen Full length native protein (purified) corresponding to beta Galactosidase. Full length native Beta

Galactosidase isolated from E.coli

General notes Application Note: This antibody shows inconsistent results between batches in ICC/IF, IF, IHC-

P, IHC-Fr and IHC-FoFr. We have received several good Abreviews on these applications, however, we are unable to guarantee positive results. If the antibody is used for IHC, please try fixing with methanol and block with gelatine instead with BSA or NGS. After each antibody incubation, please wash 5x with TBS instead of PBS.We would recommend **ab4761** or **ab12081** 

as alternatives.

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.

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&As

**Properties** 

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

Storage buffer Preservative: 0.01% Sodium azide

Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride, 1% BSA

**Purity** lgG fraction

Purification notes IgG fraction purified from monospecific antiserum by a multi-step process of delipidation, salt

1

fractionation, ion exchange chromatography and dialysis.

**Clonality** Polyclonal

**Isotype** IgG

# **Applications**

### The Abpromise guarantee

Our Abpromise guarantee covers the use of ab616 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	****(8)	1/5000 - 1/10000. Detects a band of approximately 116 kDa. This antibody shows inconsistent results between batches in ICC/IF, IHC-P, IHC-Fr and IHC-FoFr. We have received several good Abreviews on these applications, however, we are unable to guarantee positive results. If the antibody is used for IHC, please try fixing with methanol and block with gelatine instead with BSA or NGS. After each antibody incubation, please wash

# **Application notes**

Is unsuitable for ICC/IF,IHC-Fr or IHC-P.

# **Target**

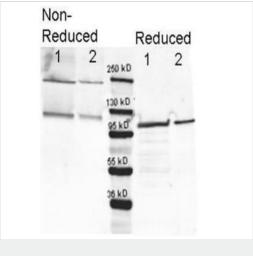
### Relevance

Beta galactosidase is coded by a gene (lac z) in the lac operon of Escherichia coli. It is a metalloenzyme that splits lactose into glucose and galactose. It hydrolyzes terminal, non-reducing beta-D-galactose residues in beta-D-galactosides. Activation by cations seems to be substrate dependent. K+, Na+, NH4+, Rb+, Cs+ and Mn++ all activate enzyme activity based upon the substrate used.

# **Cellular localization**

Cytoplasmic

#### **Images**



Western blot - Anti-beta Galactosidase antibody (ab616)

**All lanes :** Anti-beta Galactosidase antibody (ab616)

**Lanes 1-2 :** Non-reduced purified recombinant beta Galactosidase protein

Lanes 3-4: reduced purified recombinant beta Galactosidase

protein

Western blotting using ab616. Lane 1 shows 80 ng and lane 2 shows 20 ng loaded onto gel. Results for non-reducing conditions of SDS-PAGE prior to transfer to nitrocellulose are shown on the left side of the figure; results obtainined under reducing conditions are shown on the right. The membrane was probed with ab616 at 1/10,000 dilution.

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

# Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- · Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <a href="https://www.abcam.com/abpromise">https://www.abcam.com/abpromise</a> or contact our technical team.

#### Terms and conditions

· Guarantee only valid for products bought direct from Abcam or one of our authorized distributors