

## Product datasheet

# Anti-beta Galactosidase antibody [BG-02] ab1047

★ ★ ★ ★ ★ 3 Abreviews  
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### Overview

<b>Product name</b>	Anti-beta Galactosidase antibody [BG-02]
<b>Description</b>	Mouse monoclonal [BG-02] to beta Galactosidase
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC, ICC/IF
<b>Immunogen</b>	Full length native protein (purified) (E. coli).
<b>Epitope</b>	Recognizes a non-catalytic centre epitope of Beta-galactosidase from E. coli.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: 15mM Sodium Azide Constituents: PBS, pH 7.4
<b>Purity</b>	>95% by SDS-PAGE
<b>Purification notes</b>	Purified from ascites by precipitation methods.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	BG-02
<b>Isotype</b>	IgG1

### Applications

Our [Abpromise guarantee](#) covers the use of **ab1047** 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	★ ★ ★ ★ ★	Use a concentration of 1 µg/ml.
ICC		Use at an assay dependent concentration.

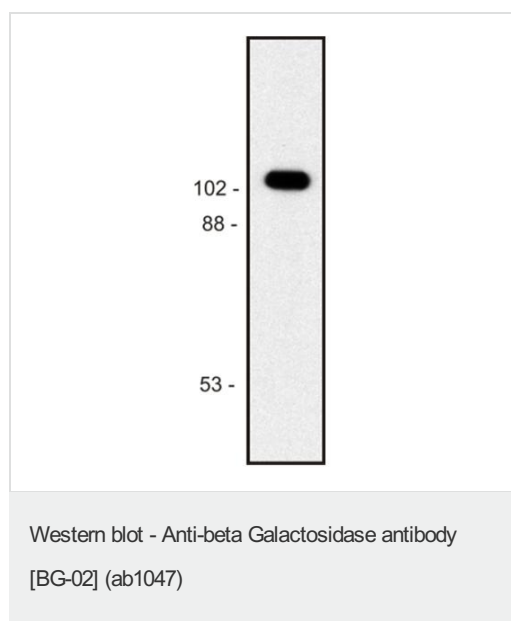
Application	Abreviews	Notes
ICC/IF	★★★★★	Use at an assay dependent concentration. Used at a dilution of 1/50 for 18 hrs on mouse mammary cells (see Abreview for further information).

## 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<sup>+</sup>, Na<sup>+</sup>, NH<sub>4</sub><sup>+</sup>, Rb<sup>+</sup>, Cs<sup>+</sup> and Mn<sup>++</sup> all activate enzyme activity based upon the substrate used.

**Cellular localization** Cytoplasmic

## Images



Anti-beta Galactosidase antibody [BG-02] (ab1047) at 1 µg/ml + Purified *E. coli* beta-galactosidase

### Secondary

Goat anti-mouse IgG (H+L)-HRP conjugate

Performed under non-reducing conditions.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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