

# Anti-beta Galactosidase antibody ab134435

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### Overview

<b>Product name</b>	Anti-beta Galactosidase antibody
<b>Description</b>	Chicken polyclonal to beta Galactosidase
<b>Host species</b>	Chicken
<b>Tested applications</b>	<b>Suitable for:</b> IHC-FoFr, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Escherichia coli
<b>Immunogen</b>	Purified beta Galactosidase (lacZ) protein emulsified in Freund's adjuvants.
<b>Positive control</b>	Tissues infected with a virus bearing the LacZ gene
<b>General notes</b>	<p>Do not freeze these antibodies at <math>-80^{\circ}\text{C}</math> unless you want to store them for longer periods of time. Note, however, that each time an antibody preparation is frozen, about half its binding activity is lost.</p> <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>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at $4^{\circ}\text{C}$ . Store at $-20^{\circ}\text{C}$ . Avoid freeze / thaw cycle. Store In the Dark.
<b>Storage buffer</b>	<p>pH: 7</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 49% PBS, 50% Glycerol</p>
<b>Purity</b>	IgY fraction
<b>Purification notes</b>	IgY fractions were prepared from eggs yolks, and then affinity-purified antibodies were prepared using beta Galactosidase conjugated to an agarose matrix. The final product is a mixture of both affinity-purified antibodies (25 $\mu\text{g/ml}$ ) and purified IgY (10 $\text{mg/ml}$ ), and is filter-sterilized.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgY

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab134435 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
IHC-FoFr		1/2500 - 1/5000. Use 2% paraformaldehyde-fixed tissues infected with a virus bearing the LacZ gene.
ICC/IF		1/2500 - 1/5000. Use 2% paraformaldehyde-fixed cells.

## Target

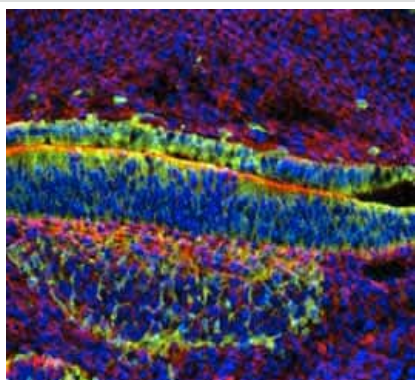
### Relevance

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



Immunohistochemical analysis of tissue infected with a virus bearing the LacZ gene labelling beta Galactosidase with ab134435 at 1/5000 dilution with e18 mouse otic vesicle. The green stain is beta-galactosidase (ab134435); the red stain is Texas-red-phalloidin, staining filamentous actin; the blue staining is DAPI (4',6-diamidino-2-phenylindole), a DNA-binding dye. Secondary antibodies were fluorescein-labeled affinity-purified goat anti-chicken IgY (1/2000 dilution).

Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-beta Galactosidase antibody (ab134435)

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

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