

Product datasheet

Anti-beta glucuronidase (GUSB) antibody [EPR10616] ab166904

Recombinant RabMAb

6 Images

Overview

Product name	Anti-beta glucuronidase (GUSB) antibody [EPR10616]
Description	Rabbit monoclonal [EPR10616] to beta glucuronidase (GUSB)
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human fetal liver lysate, K562, HepG2 and 293T cell lysates, paraffin-embedded Human liver and skin tissue, HepG2 cells, K562 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR10616
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab166904 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

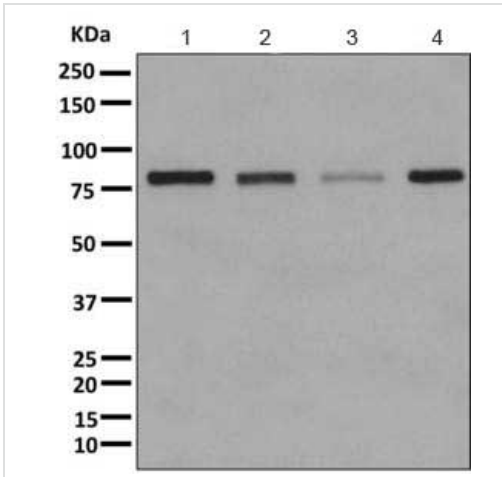
Application	Abreviews	Notes
Flow Cyt (Intra)		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/5000. Predicted molecular weight: 78 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/250.

Application notes Is unsuitable for IP.

Target

Function	Plays an important role in the degradation of dermatan and keratan sulfates.
Involvement in disease	Defects in GUSB are the cause of mucopolysaccharidosis type 7 (MPS7) [MIM:253220]; also known as Sly syndrome. MPS7 is an autosomal recessive lysosomal storage disease characterized by inability to degrade glucuronic acid-containing glycosaminoglycans. The phenotype is highly variable, ranging from severe lethal hydrops fetalis to mild forms with survival into adulthood. Most patients with the intermediate phenotype show hepatomegaly, skeletal anomalies, coarse facies, and variable degrees of mental impairment. Note=Mucopolysaccharidosis type 7 is associated with non-immune hydrops fetalis, a generalized edema of the fetus with fluid accumulation in the body cavities due to non-immune causes. Non-immune hydrops fetalis is not a diagnosis in itself but a symptom, a feature of many genetic disorders, and the end-stage of a wide variety of disorders.
Sequence similarities	Belongs to the glycosyl hydrolase 2 family.
Post-translational modifications	N-linked glycosylated with 3 to 4 oligosaccharide chains.
Cellular localization	Lysosome.

Images



Western blot - Anti-beta glucuronidase (GUSB) antibody [EPR10616] (ab166904)

All lanes : Anti-beta glucuronidase (GUSB) antibody [EPR10616] (ab166904) at 1/1000 dilution

Lane 1 : Human fetal liver tissue lysate

Lane 2 : K562 cell lysate

Lane 3 : HepG2 cell lysate

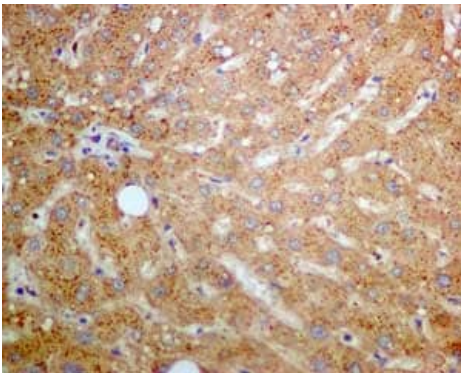
Lane 4 : 293T cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP IgG antibody at 1/2000 dilution

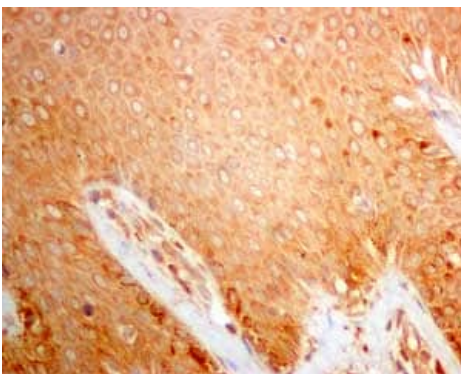
Predicted band size: 78 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta glucuronidase (GUSB) antibody [EPR10616] (ab166904)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling beta glucuronidase (GUSB) with ab166904 at 1/50 dilution.

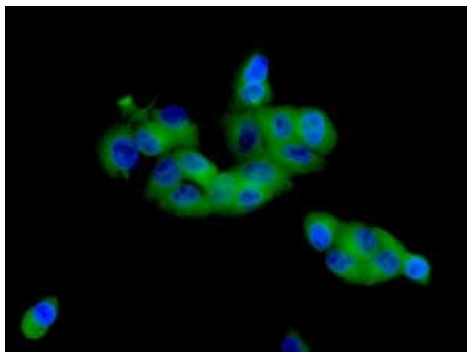
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta glucuronidase (GUSB) antibody [EPR10616] (ab166904)

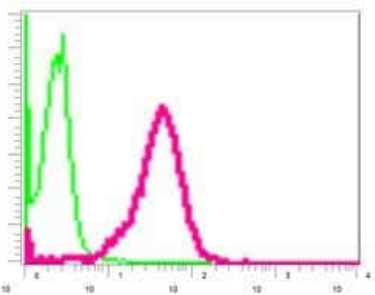
Immunohistochemical analysis of paraffin-embedded Human skin tissue labeling beta glucuronidase (GUSB) with ab166904 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunofluorescent analysis of HepG2 cells labeling beta glucuronidase (GUSB) with ab166904 at 1/100 dilution.





Immunocytochemistry/ Immunofluorescence - Anti-beta glucuronidase (GUSB) antibody [EPR10616] (ab166904)



Intracellular flow cytometric analysis of permeabilized K562 cells labeling beta glucuronidase (GUSB) with ab166904 at 1/100 dilution (red) or a rabbit IgG negative (green).

Flow Cytometry (Intracellular) - Anti-beta glucuronidase (GUSB) antibody [EPR10616] (ab166904)

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-beta glucuronidase (GUSB) antibody [EPR10616] (ab166904)

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

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