

Anti-Beta Glucuronidase(Gusb) Antibody
Catalog # ABO11219**Specification**

Anti-Beta Glucuronidase(Gusb) Antibody - Product Information

Application	WB
Primary Accession	P08236
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Beta-glucuronidase(GUSB) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Beta Glucuronidase(Gusb) Antibody - Additional Information

Gene ID 2990

Other Names

Beta-glucuronidase, 3.2.1.31, Beta-G1, GUSB

Calculated MW

74732 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Lysosome.

Protein Name

Beta-glucuronidase

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human beta glucuronidase(GUSB)(50-70aa DFSDNRRRGFEEQWYRRPLWE).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Beta Glucuronidase(Gusb) Antibody - Protein Information

Name GUSB

Function

Plays an important role in the degradation of dermatan and keratan sulfates.

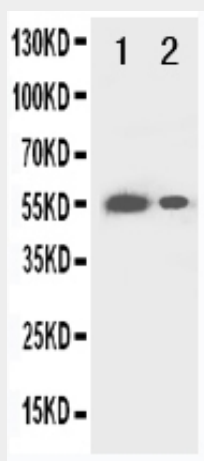
Cellular Location

Lysosome.

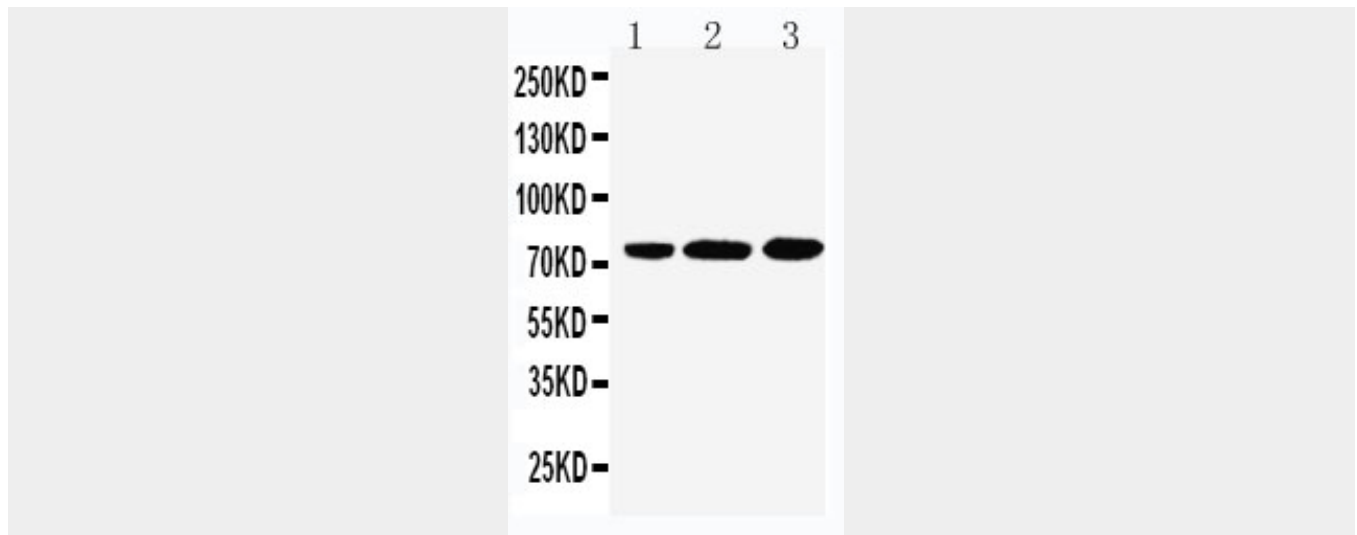
Anti-Beta Glucuronidase(Gusb) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Beta Glucuronidase(Gusb) Antibody - Images

Anti-beta glucuronidase(GUSB) antibody, ABO11219, Western blotting Recombinant Protein Detection Source: E.coli derived -recombinant Human GUSB, 40.9KD(162aa tag+ M1-P290) Lane 1: Recombinant Human GUSB Protein 10ng Lane 2: Recombinant Human GUSB Protein 5ng



Anti-beta glucuronidase(GUSB) antibody, ABO11219, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: SW620 Cell Lysate
Lane 3: MCF-7 Cell Lysate

Anti-Beta Glucuronidase(Gusb) Antibody - Background

GUSB(Beta-Glucuronidase) is an enzyme that in humans is encoded by the GUSB gene. The GUSB gene encodes beta-glucuronidase, a lysosomal hydrolase involved in the stepwise degradation of glucuronic acid-containing glycosaminoglycans. It is a tetrameric glycoprotein composed of identical subunits. The GUSB gene is mutated in mucopolysaccharidosis type VII. Miller et al.(1990) reported that the GUSB gene is 21 kb long and contains 12 exons. The GUSB gene is mapped on 7q11.21. Beta-glucuronic acid acts naturally to cleave glucuronides from conjugated bilirubin to produce unconjugated bilirubin, which is then absorbed into the bloodstream. Kreamer et al.(2001) postulated that the beta-glucuronidase inhibitor L-aspartic acid can thus block enterohepatic circulation of bilirubin. Tomatsu et al.(2002) stated that more than 45 different mutations in the GUSB gene had been identified in human patients with MPS VII, approximately 90% of which were point mutations.