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GUSB Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9348c

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	P08236
Other Accession	Q4FAT7
Reactivity	Human, Mouse
Predicted	Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24036
Calculated MW	74732
Antigen Region	335-362

Additional Information

Gene ID	2990
Other Names	Beta-glucuronidase, Beta-G1, GUSB
Target/Specificity	This GUSB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 335-362 amino acids from the Central region of human GUSB.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GUSB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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

Cellular Location Lysosome.

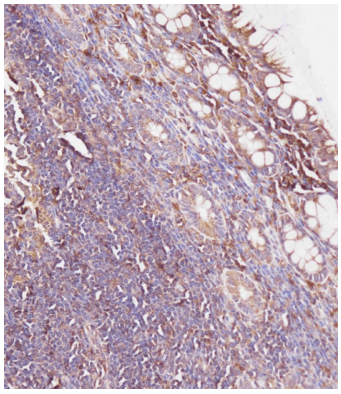
Background

The GUSB gene encodes beta-glucuronidase (EC 3.2.1.31), a lysosomal hydrolase involved in the stepwise degradation of glucuronic acid-containing glycosaminoglycans (Shipley et al., 1993 [PubMed 7680524]). It is a tetrameric glycoprotein composed of identical subunits (Oshima et al., 1987 [PubMed 3468507]). The GUSB gene is mutated in mucopolysaccharidosis type VII (MPS7; MIM 253220).

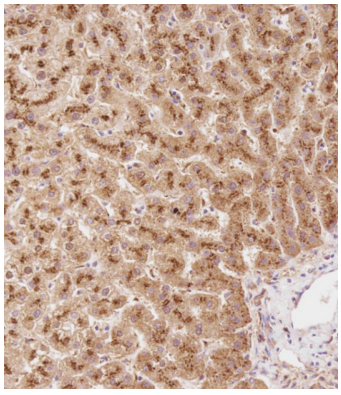
References

Tomatsu,S. Hum. Mutat. 30 (4), 511-519 (2009)
Romanowski,T. Med. Sci. Monit. 14 (7), BR147-BR152 (2008)
Gratz,M. Pharmacogenet. Genomics 15 (12), 875-881 (2005)

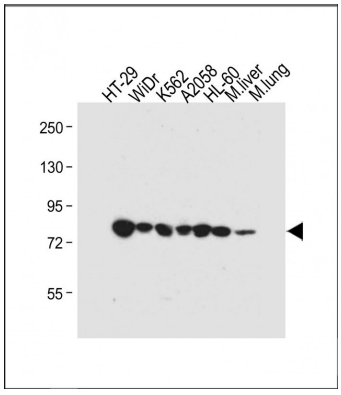
Images



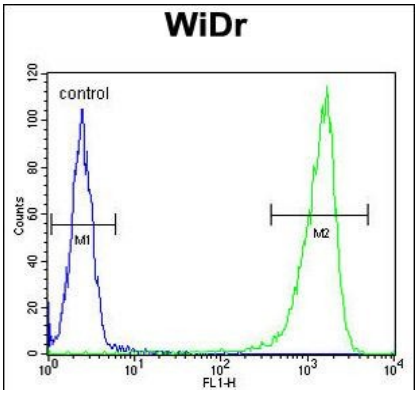
Immunohistochemical analysis of AP9348C on paraffin-embedded Human colon carcinoma tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of AP9348C on paraffin-embedded Human liver tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



All lanes : Anti-GUSB Antibody (Center) at 1:4000 dilution Lane 1: HT-29 whole cell lysate Lane 2: WiDr whole cell lysate Lane 3: K562 whole cell lysate Lane 4: A2058 whole cell lysate Lane 5: HL-60 whole cell lysate Lane 6: Mouse liver tissue lysate Lane 7: Mouse lung tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 75 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



GUSB Antibody (Center) (Cat. #AP9348c) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.