

GBA Polyclonal Antibody

Catalog Number PA5-22326

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 65 and 384 of GBA (Uniprot ID#P04062)	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1.78 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 20% glycerol		
Contains	0.025% ProClin 300		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: HepG2. Predicted reactivity: Mouse (84%), Rat (85%), Pig (90%), Chimpanzee (100%), Bovine (89%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

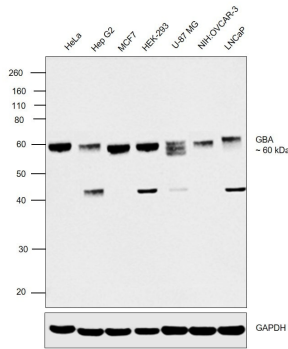
GBA encodes a lysosomal membrane protein that cleaves the beta-glucosidic linkage of glycosylceramide, an intermediate in glycolipid metabolism. Mutations in this gene cause Gaucher disease, a lysosomal storage disease characterized by an accumulation of glucocerebrosides. A related pseudogene is approximately 12 kb downstream of this gene on chromosome 1. Alternative splicing results in multiple transcript variants.

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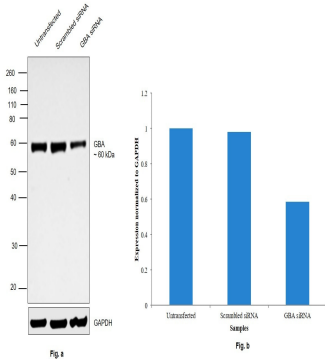
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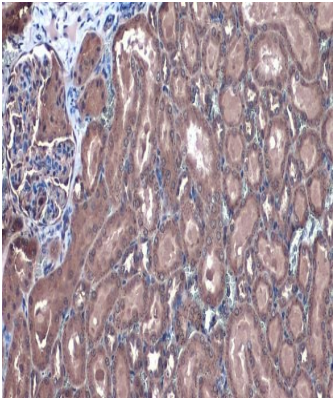
GBA Antibody (PA5-22326) in WB

Western blot was performed using Anti-GBA Polyclonal Antibody (Product # PA5-22326) and a 60 kDa band corresponding to GBA was observed across the cell lines tested. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), Hep G2 (Lane 2), MCF7 (Lane 3), HEK-293 (Lane 4), U-87 MG (Lane 5), NIH:OVCAR-3 (Lane 6) and LNCaP (Lane 7) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). An uncharacterized band of ~40 kDa was also observed in Hep G2, HEK-293 and LNCaP.



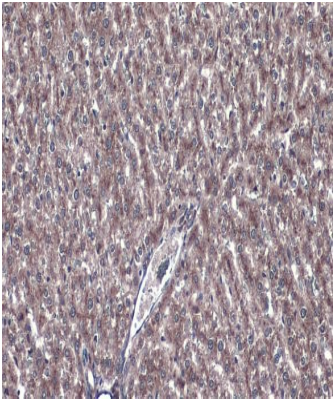
GBA Antibody (PA5-22326)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. NIH:OVCAR-3 cells were transfected with GBA siRNA and decrease in signal intensity was observed in Western Blot application using Anti-GBA Polyclonal Antibody (Product # PA5-22326). {KD}



GBA Antibody (PA5-22326) in IHC (P)

GBA Polyclonal Antibody detects GBA protein at cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded rat kidney. GBA stained by GBA Polyclonal Antibody (Product # PA5-22326) diluted at 1:1,000. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



GBA Antibody (PA5-22326) in IHC (P)

GBA Polyclonal Antibody detects GBA protein at cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded rat liver. GBA stained by GBA Polyclonal Antibody (Product # PA5-22326) diluted at 1:1,000. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.

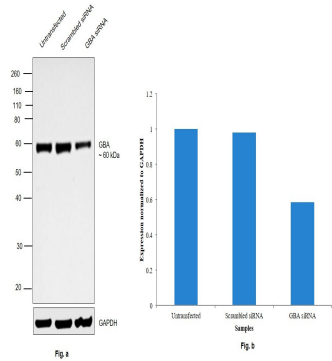
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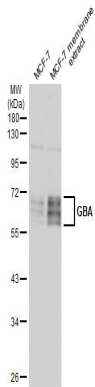
GBA Antibody (PA5-22326) in WB

Knockdown of GBA was achieved by transfecting NIH:OVCAR-3 with GBA specific siRNAs (Silencer® select Product # S501316, S534768). Western blot analysis (Fig. a) was performed using Whole cell extracts from the GBA knockdown cells (lane 3), non-targeting scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with GBA Polyclonal Antibody (Product # PA5-22326, 1:2000 dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to GBA.



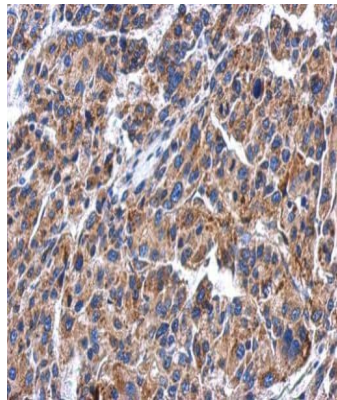
GBA Antibody (PA5-22326) in WB

Western Blot analysis of GBA was performed by separating 30 µg of MCF-7 whole cell and membrane extracts by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a GBA Polyclonal Antibody (Product # PA5-22326) at a dilution of 1:500 and a HRP-conjugated anti-rabbit IgG secondary antibody.



GBA Antibody (PA5-22326) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human hepatoma, using GBA (Product # PA5-22326) antibody at 1:500 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



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