

Rabbit anti-Human GALK1 Polyclonal Antibody | anti-GALK1 antibody

Anti-GALK1 Antibody, Rabbit Polyclonal

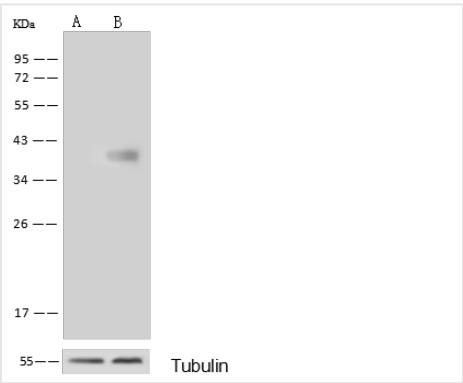
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255409	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

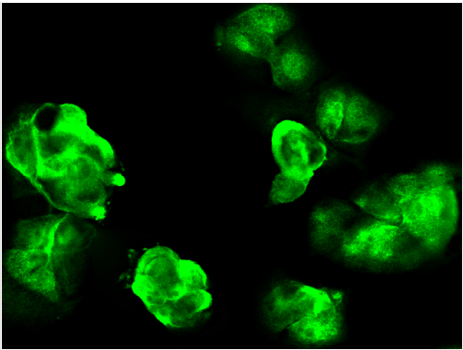
GALK1; Polyclonal Antibody; Anti-GALK1 Antibody; Rabbit Polyclonal; GALK1 Antibody; Rabbit PAb; Antigen Affinity Purified; galactokinase 1; Anti-GALK Antibody; Anti-GK1 Antibody; Anti-HEL-S-19 Antibody; anti-GALK1 antibody

PRODUCT SPECIFICATIONS

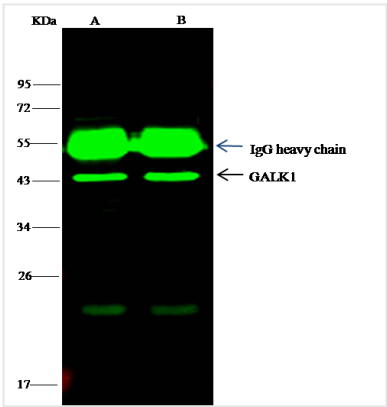
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human GALK1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-GALK1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Recombinant Human GALK1 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human GALK1 (rh GALK1). GALK1 specific IgG was purified by Human GALK1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



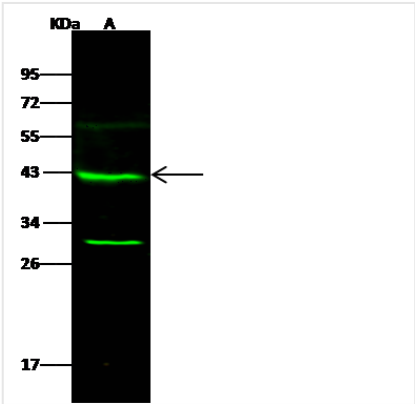
WB (Western Blot)
Anti-GALK1 rabbit polyclonal antibody at 1:500 dilution Lane A: GALK1 knockdown HeLa Whole Cell Lysate Lane B: HeLa Whole Cell Lysate Lysates/proteins at 10 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 42 kDa Observed band size: 42 kDa



IF (Immunofluorescence)
Immunofluorescence staining of HG3C-GALK1 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti- HG3C-GALK1 polyclonal antibody (dilution ratio: 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cytoplasm.



IP (Immunoprecipitation)
GALK1 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate Lane B: 0.5 mg HepG2 Whole Cell Lysate 4 uL anti-GALK1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-GALK1 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 42 kDa Observed band size: 42 kDa



WB (Western Blot)
Anti-GALK1 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti- Rabbit IgG (H+L) (DyLight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 42 kDa Observed band size: 42 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

Related Product Information for anti-GALK1 antibody	Galactokinase, also known as Galactose kinase, GALK and GALK1, is a protein which belongs to the GHMP kinase family and GalK subfamily. Galactokinase/GALK1 is a major enzyme for galactose metabolism. Galactokinase (GALK) deficiency is an autosomal recessive disorder characterized by elevation of blood galactose concentration and diminished galactose-1-phosphate, leading to the production of galactitol. Defects in GALK1 are the cause of galactosemia II (GALCT2) which II is an autosomal recessive deficiency characterized by congenital cataracts during infancy and presenile cataracts in the adult population. The cataracts are secondary to accumulation of galactitol in the lenses.
References	Hunter, M. et al., 2001, Hum Mutat. 17 (1):77-8. Park, H.D. et al., 2007, Mol Genet Metab. 91 (3):234-8. Park, H.D. et al., 2009, BMC Med Genet. 10 :29.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503895
NCBI GeneID	2584
NCBI Accession #	NP_000145.1

NCBI GenBank Nucleotide #	NM_000154.1
UniProt Accession #	P51570; B2RC07
Molecular Weight	42,272 Da
NCBI Official Full Name	galactokinase
NCBI Official Synonym Full Names	galactokinase 1
NCBI Official Symbol	GALK1
NCBI Official Synonym Symbols	GK1; GALK
NCBI Protein Information	galactokinase; galactose kinase
UniProt Protein Name	Galactokinase
UniProt Gene Name	GALK1
UniProt Synonym Gene Names	GALK
UniProt Entry Name	GALK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/galk1-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/255409>