Recombinant DGRmAb®

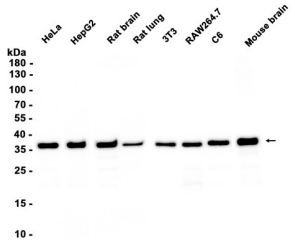
GAPDH (DGR11217) Rabbit mAb

db11729 **Package : 10μL 20μL 100μL 500μL 1mL**

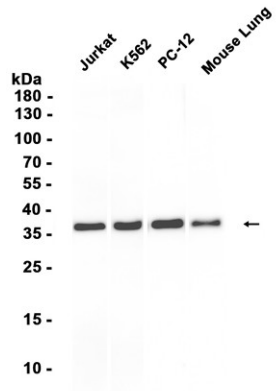
Product Name : GAPDH (DGR11217) Rabbit mAb
Cat.No.: db11729
Synonyms : G3PD; GAPD; HEL-S-162eP
Application : WB, IHC-P, ICC/IF, FC, IP
Reactivity : Human,Mouse,Rat,Monkey,Rabbit,Chicken,Zebrafish,Rabbit,Xenopus tropicalis,Chinese hamster,E. Escherichia coli
Host species : Rabbit

Background	This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein was originally identified as a key glycolytic enzyme that converts D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate. Subsequent studies have assigned a variety of additional functions to the protein including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Alternative splicing results in multiple transcript variants. Many pseudogenes similar to this locus are found throughout the mouse genome. [provided by RefSeq, Jan 2014]
Immunogen	Recombinant protein of human GAPDH
Gene ID	14433
Swiss Prot	P16858
Synonyms	G3PD; GAPD; HEL-S-162eP
Reactivity	Human,Mouse,Rat,Monkey,Rabbit,Chicken,Zebrafish,Rabbit,Xenopus tropicalis,Chinese hamster,E. Escherichia coli
Application	WB, IHC-P, ICC/IF, FC, IP
Recommended dilution	WB: 1:1000-1:5000 IHC-P: 1:200-1:2000 ICC/IF: 1:200-1:500 FC: 1:100-1:200 IP: 1:50
Calculated MW	36 kDa
Observed MW	36 kDa

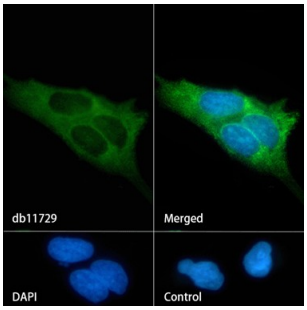
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR11217
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



Western blot analysis of extracts from HeLa, HepG2, 3T3, RAW264.7, C6 cells and Rat brain, Rat lung, Mouse brain tissues using db11729 at 1:5000.



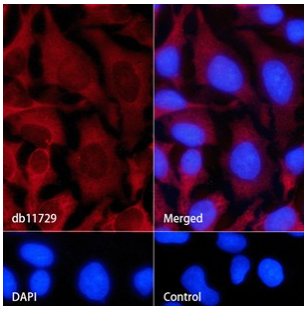
Western blot analysis of extracts from Jurkat, K562, PC-12 cells and Mouse lung tissue using db11729 at 1:5000.



Immunofluorescence analysis of Hela cells labelling GAPDH with db11729.

The cells were fixed with cold 100% methanol (10min, 4℃) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db11729 (1:200) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

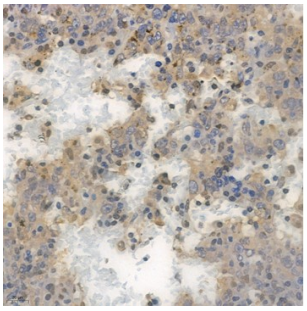
Control: Secondary antibody only.



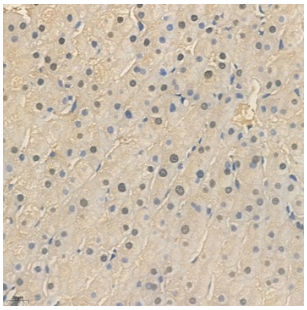
Immunofluorescence analysis of HeLa cells labelling GAPDH with db11729.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db11729 (1:200) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF647(db10006, shown in red). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.



Immunohistochemical analysis of paraffin-embedded human melanoma tissue labeling GAPDH with db11729. Counter stained with Hematoxylin.



Immunohistochemical analysis of paraffin-embedded human liver tissue labeling GAPDH with db11729. Counter stained with Hematoxylin.