

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

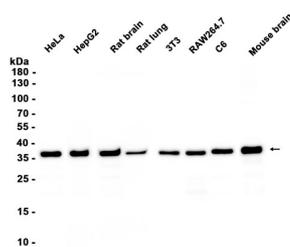
Calculated MW

36 kDa

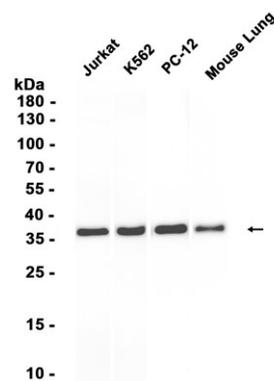
Observed MW

36 kDa

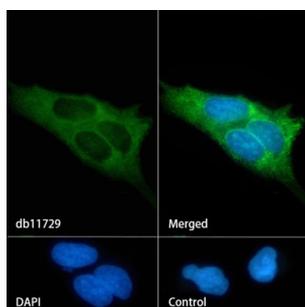
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR11217
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



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.



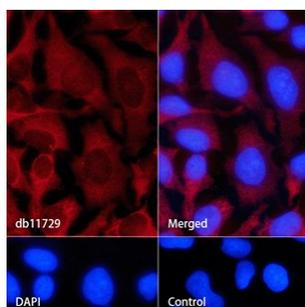
Western blot analysis of extracts from Jurkat, K562, PC-12 cells and Mouse lung tissue using db11729 at 1:5000.



Immunofluorescence analysis of HeLa cells labelling GAPDH with db11729.

The cells were fixed with cold 100% methanol (10min, 4°C) 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.