

Recombinant

DGRmAb®

GAPDH (DGR11217) Rabbit mAb (PBS Only)

db11729-PBS

Package : 100µg

Product Name : GAPDH (DGR11217) Rabbit mAb (PBS Only)**Cat.No.:** db11729-PBS**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

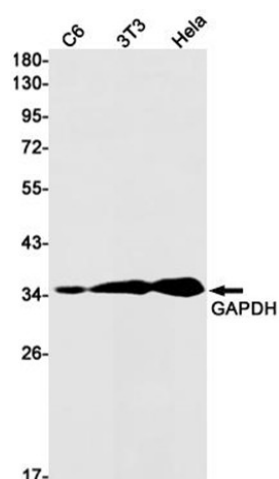
Recommended dilutionWB: 1:1000-1:5000
IHC-P: 1:200-1:2000
ICC/IF: 1:200-1:500
FC: 1:100-1:200
IP: 1:50**Calculated MW**

36 kDa

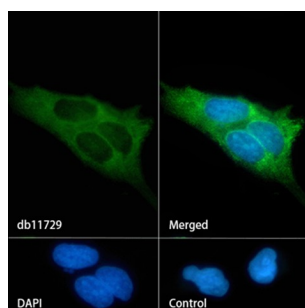
Observed MW

36 kDa

Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR11217
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Concentration	1 mg/ml
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



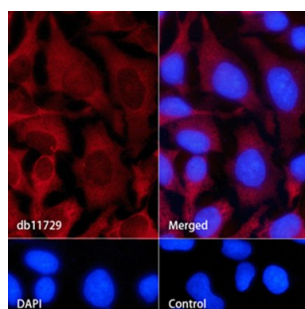
Western blot detection of GAPDH in C6,3T3,HeLa cell lysates using GAPDH antibody(1:1000 diluted).



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.