Recombinant DGRmAb®

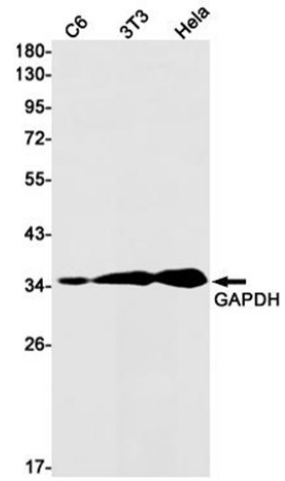
GAPDH (DGR11217) Rabbit mAb

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

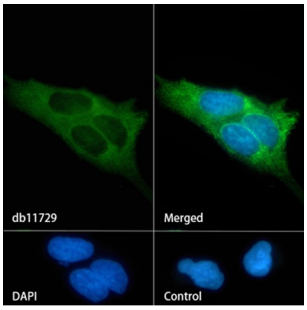
Product Name : GAPDH (DGR11217) Rabbit mAb
Cat.No.: db11729
Synonyms : G3PD; GAPD; HEL-S-162eP
Application : WB, IHC-P, ICC/IF, FC, IP
Reactivity : Human,Mouse,Rat,Monkey,Rabbit,Chicken,Zebrafish,Rabbit,Xenopus tropicalis,Chinese hamster,E. Escherichia coli
Host species : Rabbit

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.



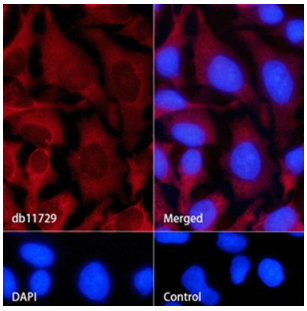
Western blot detection of GAPDH in C6,3T3,Hela cell lysates using GAPDH antibody(1:1000 diluted).



Immunofluorescence analysis of Hela cells labelling GAPDH with db11729.

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