Recombinant DGRmAb®

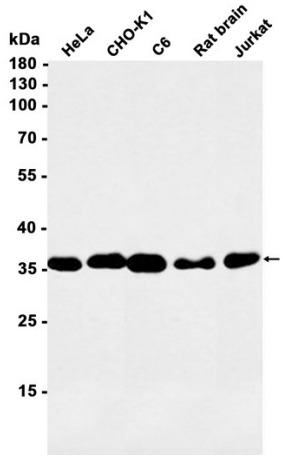
GAPDH (DGR18773) Rabbit mAb

db14510 **Package : 10μL 20μL 100μL 500μL 1mL**

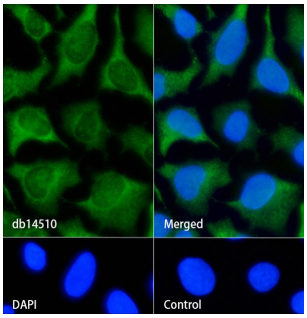
Product Name : GAPDH (DGR18773) Rabbit mAb
Cat.No.: db14510
Synonyms : G3PD; GAPD; HEL-S-162eP
Application : WB, IHC-P, ICC/IF, FC
Reactivity : Human,Mouse,Rat,Monkey,Cow, Dog,Chicken
Host species : Rabbit

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 product of this gene catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus. Also, this protein contains a peptide that has antimicrobial activity against E. coli, P. aeruginosa, and C. albicans. Studies of a similar protein in mouse have assigned a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Many pseudogenes similar to this locus are present in the human genome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]
Immunogen	Recombinant protein of human GAPDH
Gene ID	2597
Swiss Prot	P04406
Synonyms	G3PD; GAPD; HEL-S-162eP
Reactivity	Human,Mouse,Rat,Monkey,Cow, Dog,Chicken
Application	WB, IHC-P, ICC/IF, FC
Recommended dilution	WB: 1:1000-1:5000 IHC-P: 1:200-1:500 ICC/IF: 1:100-1:200 FC: 1:100-1:200
Calculated MW	36 kDa

Observed MW	36 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR18773
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.



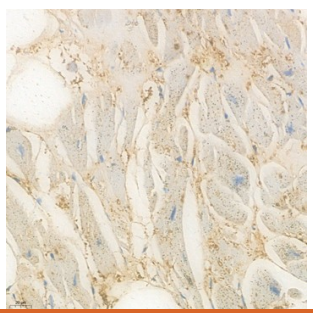
Western blot analysis of extracts from HeLa, CHO-K1, C6, Jurkat cells, and Rat brain tissue using db14510 at 1:1000.



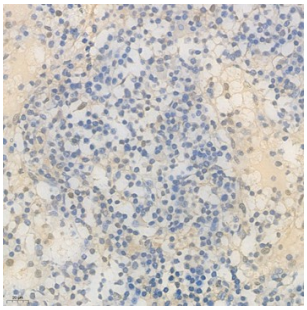
Immunofluorescence analysis of HeLa cells labelling GAPDH with db14510.

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 db14510 (1:100) 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.

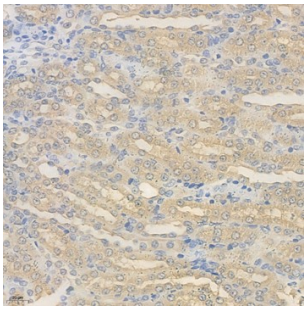
Control: Secondary antibody only.



Immunohistochemical analysis of paraffin-embedded human heart tissue labeling GAPDH with db14510. Counter stained with Hematoxylin.



Immunohistochemical analysis of paraffin-embedded human lymph node tissue labeling GAPDH with db14510. Counter stained with Hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse renal tissue labeling GAPDH with db14510. Counter stained with Hematoxylin.



Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue labeling GAPDH with db14510. Counter stained with Hematoxylin.