

Recombinant

DGRmAb®

GAPDH (DGR18773) Rabbit mAb (PBS Only)

db14510-PBS

Package : 100µg

Product Name : GAPDH (DGR18773) Rabbit mAb (PBS Only)**Cat.No.:** db14510-PBS**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

Calculated MW

36 kDa

Observed MW

36 kDa

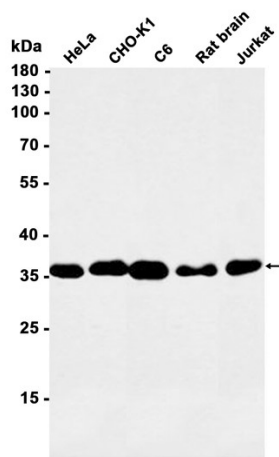
Host species

Rabbit

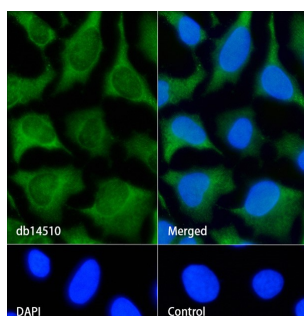
Clonality

Monoclonal

Clonality No.	DGR18773
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 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°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 [db14510](#) (1:100) at room temperature 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.