Recombinant DGRmAb®

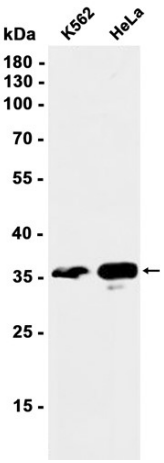
GAPDH (DGR12320) Rabbit mAb (PBS Only)

db12905-PBS **Package : 10μg 100μg**

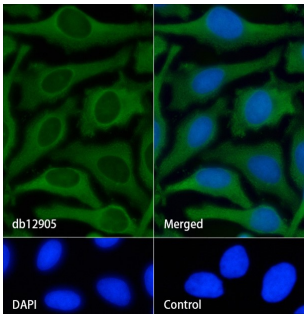
Product Name : GAPDH (DGR12320) Rabbit mAb (PBS Only)
Cat.No.: db12905-PBS
Synonyms : G3PD; GAPD; HEL-S-162eP
Application : WB, IHC-P, ICC/IF, FC, IP
Reactivity : Human
Host species : Rabbit

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	A synthetic peptide of human GAPDH
Gene ID	2597
Swiss Prot	P04406
Synonyms	G3PD; GAPD; HEL-S-162eP
Reactivity	Human
Application	WB, IHC-P, ICC/IF, FC, IP
Calculated MW	36 kDa
Observed MW	36 kDa
Host species	Rabbit
Clonality	Monoclonal

Clonality No.	DGR12320
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 K562, HeLa cells using db12905 at 1:1000.



Immunofluorescence analysis of HeLa cells labelling GAPDH with db12905.

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 db12905 (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.