

GAPDH Monoclonal Antibody(2B8)

Description

Product type	Primary Antibody
Code	BT-MCA0039
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthetic Peptide of GAPDH
Mol wt	N/A
Species reactivity	Human,Rat,Mouse,Monkey,Dog,Chicken,Hamster,Rabbit,Pig,sheep,Insect,Yeast
Clonality	Monoclonal
Recommended application	WB, IF, ICC, IHC-p
Concentration	1 mg/ml
Full name	Glyceraldehyde-3-phosphate dehydrogenase
Synonyms	GAPDH; GAPD; CDABP0047; OK; SW-cl.12; Glyceraldehyde-3-phosphate dehydrogenase; GAPDH; Peptidyl-cysteine S-nitrosylase GAPDH

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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 transferri

Recommended Dilution

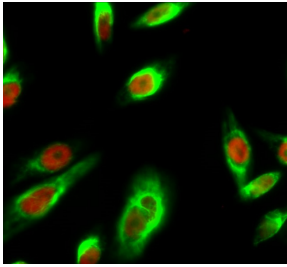
IF: 1:200

IHC: 1:200-300

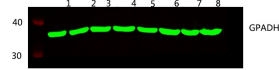
WB: 1:5000-20000

Not yet tested in other applications.

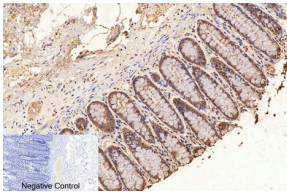
Images



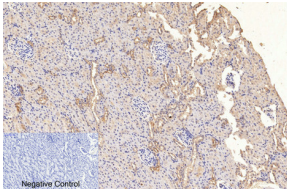
Immunofluorescence analysis of HeLa cell. Cyclin D1 Polyclonal Antibody(red) was diluted at 1:200(4°C overnight). GAPDH Monoclonal antibody(2B8)(green) was diluted at 1:200(4°C overnight).



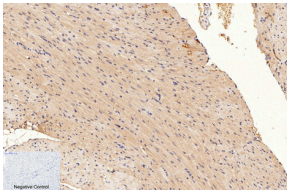
Western blot analysis of 1 HEK293 2 SW480 3 HEPG2 4 MCF-7 5 mouse brain 6 Rat brain 7 HeLa 8 A549 lysates, primary antibody was diluted at 1:5000, 4°C overnight, secondary antibody was diluted at 1:10000, 37°C 1hour.



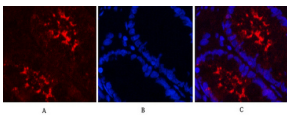
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1.GAPDH Monoclonal antibody(2B8) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



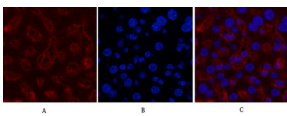
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1.GAPDH Monoclonal antibody(2B8) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



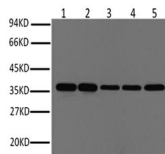
Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1.GAPDH Monoclonal antibody(2B8) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Human-colon tissue. 1.GAPDH Monoclonal antibody(2B8)(red) was diluted at 1:200(4°C,overnight). 2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Mouse-liver tissue. 1.GAPDH Monoclonal antibody(2B8)(red) was diluted at 1:200(4°C,overnight). 2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of HeLa (1) Rat brain (2) Rabbit Muscle (3) Sheep Muscle (4) and Mouse brain (5) diluted at 1:10000.

Storage

-20°C for one year

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