

GAPDH (8A3) Mouse mAb

db6497

Package : 100µL 500µL 1mL

Product Name : GAPDH (8A3) Mouse mAb**Cat.No.:** db6497**Synonyms** : G3PD; GAPD; HEL-S-162eP**Application** : WB, ICC/IF, IHC-P**Reactivity** : Human, Mouse, Rat, Monkey, Dog, Chicken, Hamster, Rabbit, Pig, Sheep, Insect, Yeast**Host species** : Mouse**Background**

Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC. Modulates the organization and assembly of the cytoskeleton. Facilitates the CHP1-dependent microtubule and membrane associations through its ability to stimulate the binding of CHP1 to microtubules. Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma treatment assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation.

Immunogen

Synthetic Peptide of GAPDH

Gene ID

2597

Swiss Prot

P04406

Synonyms

G3PD; GAPD; HEL-S-162eP

Reactivity

Human, Mouse, Rat, Monkey, Dog, Chicken, Hamster, Rabbit, Pig, Sheep, Insect, Yeast

Application

WB, ICC/IF, IHC-P

Recommended dilution

WB: 1:5000-1:10000

IHC: 1:50-1:200

ICC/IF: 1/100-1:200

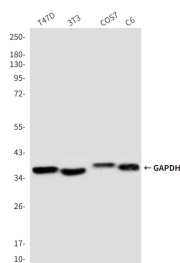
Calculated MW

36 kDa

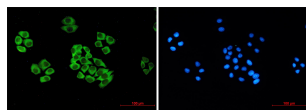
Observed MW

36 kDa

Host species	Mouse
Clonality	Monoclonal
Clonality No.	8A3-6C3-8D6
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Western blot analysis of GAPDH in T47D, 3T3, COS7 and C6 lysates using GAPDH antibody.



Immunofluorescence analysis of GAPDH (8A3) in Human tonsil tissue using GAPDH (8A3) antibody.