HRP Conjugated Anti-GAPDH Antibody [SA30-01] - Loading control

HA724237H

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Monkey
Applications:	WB
Molecular Wt:	Predicted band size: 36 kDa
Clone number:	SA30-01

Description:	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.
Conjugate:	HRP-conjugated
Immunogen:	Recombinant protein within mouse GAPDH aa 94-333 / 333.
Positive control:	HeLa cell lysate, HEK-293 cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, C6 cell lysate, PC-12 cell lysate, COS-1 cell lysate.
Subcellular location:	Cytoplasm, cytosol, Nucleus perinuclear region, Membrane, cytoskeleton.
Database links:	SwissProt: P04406 Human | P16858 Mouse | P04797 Rat
Recommended Dilutions:	
WB	1:2,000-1:20,000
Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol.
Storage Instruction:	Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.
Purity:	Protein A affinity purified.

Images

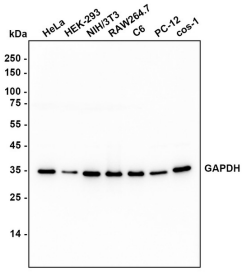

Fig1: Western blot analysis of GAPDH on different lysates with Mouse anti-GAPDH antibody (HA724237H) at 1/2,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: HEK-293 cell lysate
Lane 3: NIH/3T3 cell lysate
Lane 4: RAW264.7 cell lysate
Lane 5: C6 cell lysate
Lane 6: PC-12 cell lysate
Lane 7: COS-1 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 36 kDa
Observed band size: 36 kDa

Exposure time: 54 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA724237H, HRP) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight.

Background References

1. "High-resolution structure of human D-glyceraldehyde-3-phosphate dehydrogenase."Jenkins J.L., Tanner J.J.Acta Crystallogr. D 62:290-301(2006)
2. "Structural analysis of human liver glyceraldehyde-3-phosphate dehydrogenase."Ismail S.A., Park H.W.Acta Crystallogr. D 61:1508-1513(2005)