

GAPDH Antibody

Catalog No: #21612

Package Size: #21612-1 50ul #21612-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

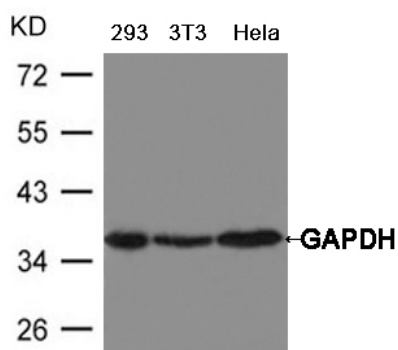
Product Name	GAPDH Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total GAPDH protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.252~256(P-A-K-Y-D) derived from Human GAPDH.
Target Name	GAPDH
Other Names	G3PD; GAPD; MGC88685
Accession No.	Swiss-Prot: P04406NCBI Protein: NP_002037.2
Uniprot	P04406
GeneID	2597;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

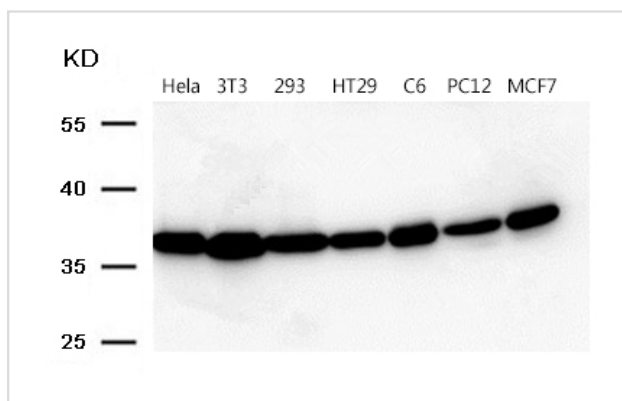
Predicted MW: 37kd

Western blotting: 1:5000~1:10000

Images



Western blot analysis of extract from HeLa, 293 and 3T3 cells using GAPDH Antibody #21612



Western blot analysis of extracts of various cell lines, using GAPDH antibody at 1:20000 dilution.

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. By similarity, 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.

Ercolani L., Florence B., Denaro M., Alexander M. J. *Biol. Chem.* 263:15335-15341(1988)

Tisdale E.J.J. *Biol. Chem.* 277:3334-3341(2002)

Note: This product is for in vitro research use only