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Product datasheet for AP22440PU-N

Isocitrate dehydrogenase (IDH1) (153-164) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	**Peptide ELISA:** 1/1000 (Detection Limit). **Western blot:** 0.3-1 µg/ml. Approx 48kDa band observed in lysates of cell line HepG2 and of Mouse Liver.
Reactivity:	Canine, Human, Mouse, Rabbit, Rat
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the internal region of the protein sequence according to NP_005887.2.
Specificity:	Recognizes IDH1 (153-164).
Formulation:	Tris saline, pH~7.3 with 0.02% Sodium Azide and 0.5% BSA State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	isocitrate dehydrogenase (NADP(+)) 1, cytosolic
Database Link:	Entrez Gene 3417 Human O75874

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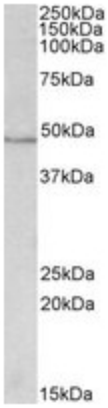
Background: IDH1 belongs to two distinct subclasses. The protein is the NADP(+)-dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. This protein contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate, namely the alpha-hydroxylation of phytanic acid. The cytoplasmic enzyme serves a significant role in cytoplasmic NADPH production.

Synonyms: PICD, Cytosolic NADP-isocitrate dehydrogenase, ICDH, IDP, Oxalosuccinate decarboxylase

Note: Calculated Molecular Weight: 46.7kDa (NP_005887.2).

Product images:



IDH1 antibody staining of HepG2 lysate at 0.3 ug/ml (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.