Datasheet for ABIN2856181

anti-GLUD1 antibody

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Overview

Quantity:	100 µL
Target:	GLUD1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLUD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Glutamate Dehydrogenase. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Drosophila melanogaster, Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to Glutamate Dehydrogenase (glutamate dehydrogenase 1) Glutamate Dehydrogenase antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	GLUD1
Alternative Name:	glutamate dehydrogenase 1 (GLUD1 Products)

Target Details

Background:	L-glutamate dehydrogenase (EC 1.4.1.3) has a central role in nitrogen metabolism in plants and animals. Glutamate dehydrogenase is found in all organisms and catalyzes the oxidative deamination of 1-glutamate to 2-oxoglutarate (Smith et al., 2001 [PubMed 11254391]). Glutamate, the main substrate of GLUD, is present in brain in concentrations higher than in other organs. In nervous tissue, GLUD appears to function in both the synthesis and the catabolism of glutamate and perhaps in ammonia detoxification (Mavrothalassitis et al., 1988 [PubMed 3368458]).[supplied by OMIM] Cellular Localization: Mitochondrion matrix
Molecular Weight:	61 kDa
Gene ID:	2746
UniProt:	P00367
Pathways:	Positive Regulation of Peptide Hormone Secretion, Warburg Effect

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: 293T , A431 , HeLa , HepG2 Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.07 mg/mL
Buffer:	1XPBS (pH 7), 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid

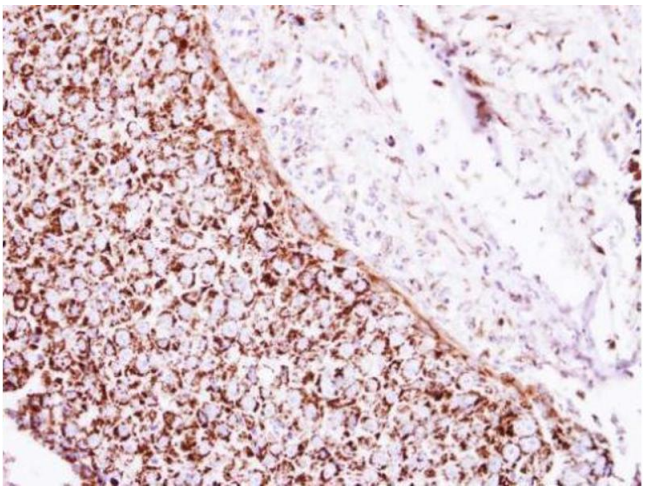
Handling

multiple freeze-thaw cycles.

Publications

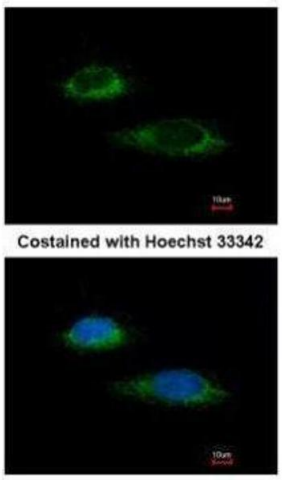
Product cited in: Geiszler, Ugun-Klusek, Lawler, Pardon, Yuchun, Bai, Daykin, Auer, Bedford: "Dynamic metabolic patterns tracking neurodegeneration and gliosis following 26S proteasome dysfunction in mouse forebrain neurons." in: **Scientific reports**, Vol. 8, Issue 1, pp. 4833, (2019) (PubMed).

Images



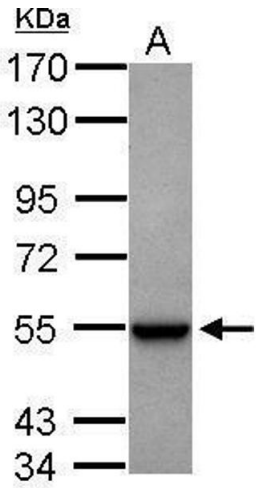
Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded human breast cancer, using Glutamate Dehydrogenase, antibody at 1:250 dilution.



Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of methanol-fixed HeLa, using Glutamate Dehydrogenase, antibody at 1:100 dilution.



Western Blotting

Image 3. WB Image Sample (30 ug of whole cell lysate) A: HepG2 7.5% SDS PAGE antibody diluted at 1:1000