Datasheet for ABIN3042446

anti-HKDC1 antibody (N-Term)

1 Image

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Overview

Quantity:	100 µg
Target:	HKDC1
Binding Specificity:	AA 102-136, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HKDC1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-HKDC1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human HKDC1, different from the related mouse sequence by four amino acids.
Sequence:	KRHVQMESQF YPTPNEIIRG NGTELFEYVA DCLAD
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-HKDC1 Antibody Picoband® (ABIN3042446). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	HKDC1
Alternative Name:	HKDC1 (HKDC1 Products)
Background:	Synonyms: Putative hexokinase HKDC1,2.7.1.1,Hexokinase domain-containing protein 1,HKDC1, Tissue Specificity: Mainly expressed in brain with predominant expression is in the cerebellum, also present in the hippocampus, amygdala, caudate nucleus, corpus callosum, subthalamic nuclei and thalamus. Detected in the heart, skeletal muscle and pancreas. Background: The epidermal growth factor receptor (HKDC1, ErbB-1, HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. It is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: HKDC1 (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). HKDC1 exists on the cell surface and is activated by binding of its specific ligands, including epidermal growth factor and transforming growth factor α (TGFα). HKDC1 and its ligands are cell signaling molecules involved in diverse cellular functions, including cell proliferation, differentiation, motility, and survival, and in tissue development. Mutations that lead to HKDC1 overexpression (known as upregulation) or overactivity have been associated with a number of cancers, including lung cancer and glioblastoma multiforme. In this latter case a more or less specific mutation of HKDC1, called HKDC1vIII is often observed. Sequence Similarities: Belongs to the hexokinase family.
Molecular Weight:	103 kDa
Gene ID:	80201

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human

1. Herbst RS (2004). "Review of epidermal growth factor receptor biology". Int. J. Radiat. Oncol. Biol. Phys. 59 (2 Suppl): 21-6. 2. Wang, K., Yamamoto, H., Chin, J. R., Werb, Z., Vu, T. H.: Epidermal growth factor receptor-deficient mice have delayed primary endochondral ossification because of defective osteoclast recruitment. J. Biol. Chem. 279: 53848-53856, 2004. 3. Kuan CT, Wikstrand CJ, Bigner DD (June 2001). "EGF mutant receptor vIII as a molecular target in cancer therapy". Endocr. Relat. Cancer 8 (2): 83-96.

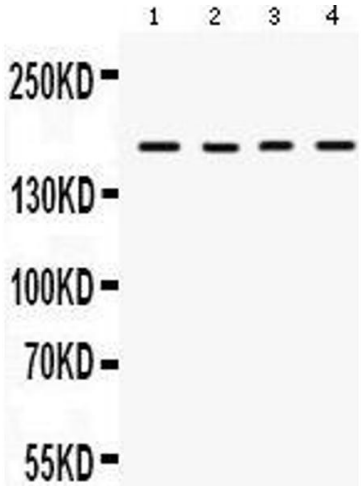
Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti-HKDC1 Picoband antibody, Western blotting All lanes: Anti HKDC1 at 0.5ug/ml Lane 1: 293T Whole Cell Lysate at 40ug Lane 2: SW620 Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Lane 4: HELA Whole Cell Lysate at 40ug Predicted bind size: 103KD Observed bind size: 170KD