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Datasheet for ABIN2856020

anti-Dystroglycan antibody

4 Images

1 Publication

Overview

| | |
|--------------|--|
| Quantity: | 100 µL |
| Target: | Dystroglycan (DAG1) |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Dystroglycan antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (IF) |

Product Details

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|-------------------|---|
| Immunogen: | Recombinant protein encompassing a sequence within the center region of human DAG1. The exact sequence is proprietary. |
| Isotype: | IgG |
| Cross-Reactivity: | Horse, Human, Mouse, Rat |
| Characteristics: | Rabbit Polyclonal antibody to alpha Dystroglycan (dystroglycan 1 (dystrophin-associated glycoprotein 1)) DAG1 antibody |
| Purification: | Purified by antigen-affinity chromatography. |

Target Details

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| Target: | Dystroglycan (DAG1) |
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Target Details

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| Alternative Name: | dystroglycan 1 (DAG1 Products) |
| Background: | <p>Dystroglycan is a laminin binding component of the dystrophin-glycoprotein complex which provides a linkage between the subsarcolemmal cytoskeleton and the extracellular matrix. Dystroglycan 1 is a candidate gene for the site of the mutation in autosomal recessive muscular dystrophies. The dramatic reduction of dystroglycan 1 in Duchenne muscular dystrophy leads to a loss of linkage between the sarcolemma and extracellular matrix, rendering muscle fibers more susceptible to necrosis. Dystroglycan also functions as dual receptor for agrin and laminin-2 in the Schwann cell membrane. The muscle and nonmuscle isoforms of dystroglycan differ by carbohydrate moieties but not protein sequence.</p> <p>Cellular Localization: Alpha-dystroglycan: Secreted , extracellular space , Beta-dystroglycan: Cell membrane , Cytoplasm , cytoskeleton</p> |
| Molecular Weight: | 97 kDa |
| Gene ID: | 1605 |
| UniProt: | Q14118 |
| Pathways: | Maintenance of Protein Location , Regulation of Carbohydrate Metabolic Process , Protein targeting to Nucleus |

Application Details

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| 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: U87-MG membrane fraction extract , MCF-7 membrane extracts , 293T membrane extracts Validation: Orthogonal |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Concentration: | 1.21 mg/mL |
| Buffer: | 1XPBS pH 7, 20 % Glycerol, 0.025 % ProClin 300 |
| Preservative: | ProClin |

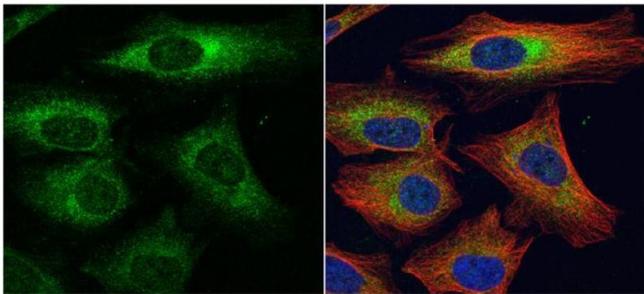
Handling

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|--------------------|--|
| 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 multiple freeze-thaw cycles. |

Publications

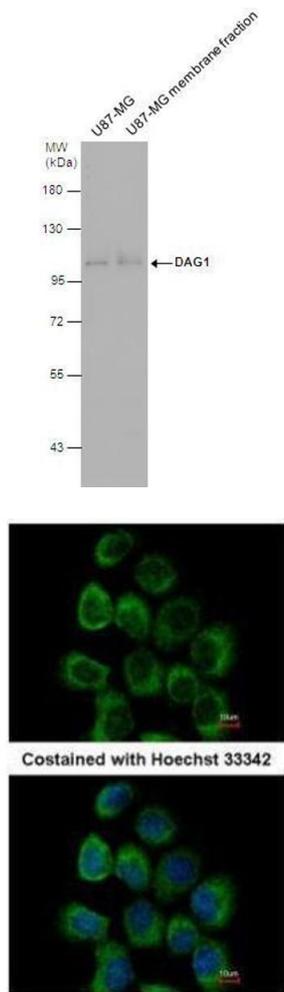
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|-------------------|--|
| Product cited in: | Yang, Chien, Lai, Su, Jan, Hsiao, Chen: "Monoamine Oxidase B Expression Correlates with a Poor Prognosis in Colorectal Cancer Patients and Is Significantly Associated with Epithelial-to-Mesenchymal Transition-Related Gene Signatures." in: International journal of molecular sciences , Vol. 21, Issue 8, (2020) (PubMed). |
|-------------------|--|

Images



Immunofluorescence

Image 1. ICC/IF Image alpha Dystroglycan antibody detects alpha Dystroglycan protein at cytoplasm by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: alpha Dystroglycan protein stained by alpha Dystroglycan antibody, diluted at 1:1000. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [B-5-1-2], diluted at 1:10000. Blue: Hoechst 33342 staining.



Western Blotting

Image 2. WB Image DAG1 antibody detects DAG1 protein by western blot analysis. U87-MG whole cell extracts and membrane extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with DAG1 antibody, diluted at 1:500.

Immunofluorescence

Image 3. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed A431, using alpha Dystroglycan, antibody at 1:500 dilution.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2856020.