

DOPEY2 Antibody

Catalog No: #48029

Package Size: #48029-1 50ul #48029-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

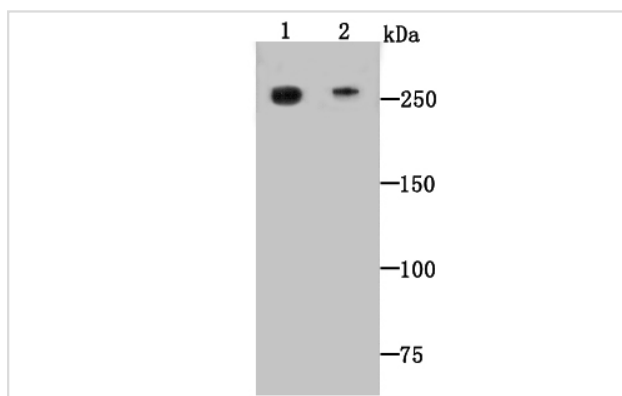
Description

Product Name	DOPEY2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Immunogen affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu, Ms
Immunogen Description	Peptide
Other Names	Dipeptidase 2 antibody Diptidase2 antibody DPEP 2 antibody MBD 2 antibody MBD2 antibody
Accession No.	Swiss-Prot#:Q9Y3R5
Calculated MW	260kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

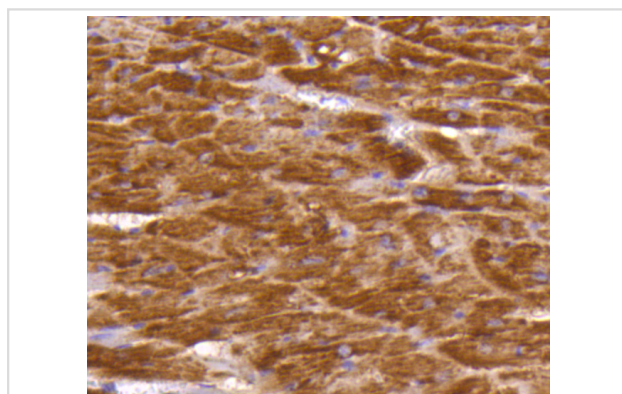
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:50-1:100

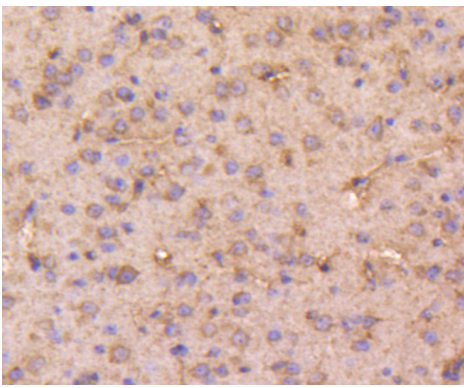
Images



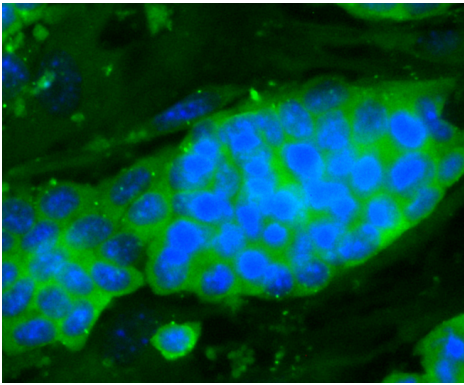
Western blot analysis of Dopey-2 on mouse heart (1) and human heart (2) tissue lysate using anti-Dopey-2 antibody at 1/500 dilution.



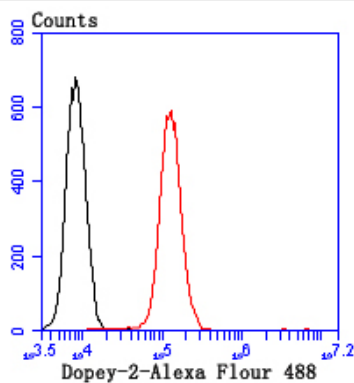
Immunohistochemical analysis of formalin-fixed, paraffin-embedded mouse heart tissue labeling Dopey-2. Counterstained with Hematoxylin.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded mouse brain tissue labeling Dopey-2. Counterstained with Hematoxylin.



ICC staining Dopey-2 in D3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of N2A cells with Dopey-2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Dopey-2, a 2,298 amino acid protein, belongs to the dopey family, that is overexpressed in lymphoblasts from Down syndrome patients and Abundantly expressed in developing central nervous system, with highest levels in cerebellum and lowest in telencephalon. Multiple isoforms of Dopey-2 exist due to alternative splicing events. Dopey-2 is thought to play a role in protein trafficking between early endosomes and the late.

References

- 1.Rachidi M et al. A quantitative assessment of gene expression (QAGE) reveals differential overexpression of DOPEY2, a candidate gene for mental retardation, in Down syndrome brain regions. *Int J Dev Neurosci* 27(4):393-8 (2009).
- 2.Swaminathan S et al. Analysis of copy number variation in Alzheimer's disease: the NIALOAD/ NCRAD Family Study. *Curr Alzheimer Res* 9(7):801-14 (2012).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.