For Research Use Only

CoraLite®594-conjugated DACH1 Monoclonal antibody

Catalog Number:CL594-60082 Featured Product 1 Publications

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Basic Information

Catalog Number:
CL594-60082

Size:
1000 ug/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG4474

GenBank Accession Number:
BC021219

GeneID (NCBI):
1602

UNIPROT ID:
Q9UI36

Full Name:
dachshund homolog 1 (Drosophila)

Calculated MW:
79 kDa

Purification Method:
Protein G purification

CloneNo.:
3B6D2

Recommended Dilutions:
IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
IF-P

Cited Applications:
IF

Species Specificity:
human, mouse, rat

Cited Species:
human

Positive Controls:

IF-P : mouse brain tissue,

Background Information

DACH1, a homologue of the Drosophila dachshund gene, is a key regulator of cell fate determination during eye, leg, and brain development in the fly. Through interacting with NCoR and Smad4, DACH1 is able to inhibit the transforming growth factor-beta (TGF-beta) signaling pathway. DACH1 can inhibit breast cancer cellular proliferation via cyclin D1, suggesting a possible role in tumor suppression. Additionally, DACH1 plays an important role in negative regulation of RANKL (Receptor activator of NF-kappaB ligand) gene expression in marrow stromal/preosteoblast cells, and loss of DACH1 expression might be involved in endometrial cancer progression. Four isoforms of DACH1 are produced by alternative splicing, but isoform1(97-110 kd) is the predominantly expressed form in tissue. This antibody is a mouse monoclonal antibody raised against residues near the C terminus of human DACH1. The antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.

Notable Publications

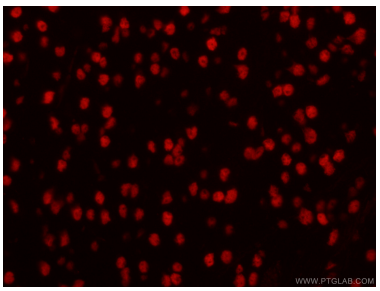
Author	Pubmed ID	Journal	Application
Xiang Hu	32512510	EBioMedicine	IF

Storage

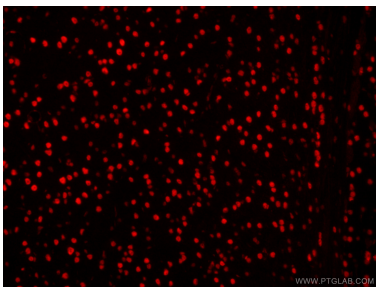
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL594-60082 (DACH1 antibody) at dilution of 1:50.



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