Datasheet for ABIN361314

anti-Dendra 2 antibody

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Overview

Quantity:	100 µg
Target:	Dendra 2
Reactivity:	Coral
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Dendra2 tag
Isotype:	IgG
Specificity:	The rabbit polyclonal antibody PAb (836) recognizes Dendra2 tag, a green-to red photoswitchable protein derived from an octocoral (Dendronephthya).
Purification:	Purified by protein-A affinity chromatography
Purity:	> 95 % SDS

Target Details

Target:	Dendra 2

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Application Details

Application Notes:	DENDRA 2 antibody has been tested for use in Western Blotting, Flow Cytometry and Immunocytochemistry. It is expected that the antibody will be suited for all applications where recognition of the native protein is required. A titration should be performed to determine the optimal concentration
Restrictions:	For Research Use only

Handling

Concentration:	1mg/ml
Buffer:	Phosphate buffered saline (PBS) solution with 15 mM 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:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C.

Publications

Product cited in:

Song, Ma, Liu, Huang, Li, Li, Luo, Ni, He: "The MRN complex maintains the biliary-derived hepatocytes in liver regeneration through ATR-Chk1 pathway." in: **NPJ Regenerative medicine**, Vol. 8, Issue 1, pp. 20, (2023) (PubMed).

Morgner, Bornes, Hahn, López-Iglesias, Kroese, Pritchard, Vennin, Peters, Huijbers, van Rheenen : "A Lamb1Dendra2 mouse model identifies basement-membrane-producing origins and dynamics in PyMT breast tumors." in: **Developmental cell**, Vol. 58, Issue 7, pp. 535-549.e5, (2023) (PubMed).

Zhang, Zhou, Li, Mo, Ma, Ni, Yang, He, Luo: "Tel2 regulates redifferentiation of bipotential progenitor cells via Hhex during zebrafish liver regeneration." in: **Cell reports**, Vol. 39, Issue 1, pp. 110596, (2022) (PubMed).

Wang, Fan, Khawaja, Liu, Zhan, Kodama, Chin, Li, Le, Zhou, Condello, Grinberg, Seeley, Miller, Mok, Gestwicki, Cuervo, Luo, Gan: "Microglial NF-κB drives tau spreading and toxicity in a

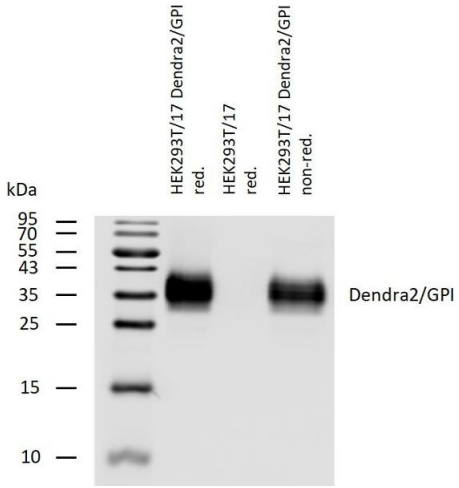
Publications

mouse model of tauopathy." in: **Nature communications**, Vol. 13, Issue 1, pp. 1969, (2022) (PubMed).

Singh, Ye, Kim: "Dual leucine zipper kinase regulates Dscam expression through a non-canonical function of the cytoplasmic poly(A)-binding protein." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, (2022) (PubMed).

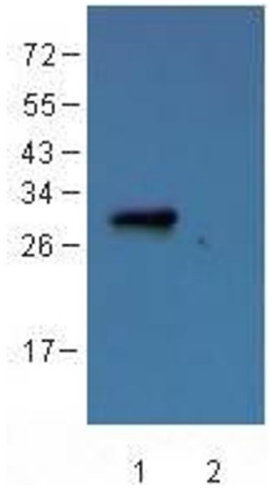
There are more publications referencing this product on: Product page

Validation report #101498 for Immunocytochemistry (ICC)



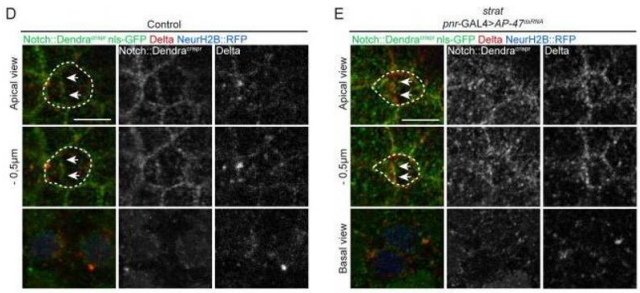
Western Blotting

Image 1. Western blotting analysis of Dendra2/GPI fusion protein using rabbit polyclonal antibody PAb (836) on lysates of HEK293T/17 cells transfected with Dendra2/GPI construct, reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of anti-Dendra2 rabbit polyclonal antibody followed by IRDye800-conjugated anti-rabbit secondary antibody. A specific band was detected for Dendra2/GPI fusion protein at approximately 35 kDa.



SDS-PAGE

Image 2. WB: line1 – Plum protein 27 kDa, line2 – E.coli BL21 lysate



Immunofluorescence

Image 3. Localization of Notch::Dendracrispr (anti-Dendra (ABIN361314), green), Histone2B::RFP expressed under the neur promoter (blue) and Delta (anti-Delta, red) in wild-type SOP daughter cells (D, n=9) and in strat SOP daughter cells expressing pnrGAL4>AP-47dsRNA (E, n=20). White arrows point to the enrichment of Notch and Delta at the apical interface between SOP daughter cells. Dashed white lines highlight SOP and SOP daughter cells. Scale bar is 5 µm. Source: DOI 10.1101/645580

Please check the product details page for more images. Overall 7 images are available for ABIN361314.

Successfully validated (Immunocytochemistry (ICC))

by Plasticity in cortical networks and epilepsy, Institut du Fer à Moulin, UMR839 INSERM/UPMC

Report Number: 101498

Date: Nov 03 2017

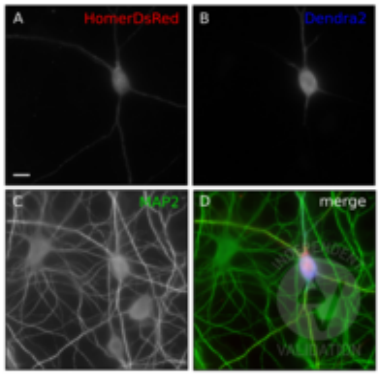
Target:	Dendra2
Lot Number:	R-053-AI-03
Method validated:	Immunocytochemistry (ICC)
Positive Control:	Rat hippocampal cells transfected with a Dendra2-tagged protein (Kv2.1_Dendra)
Negative Control:	Non transfected cells in the same preparation
Notes:	ABIN361314 specifically labels Dendra+ cells in hippocampal cell cultures transfected with a construct bearing Dendra2.
Primary Antibody:	ABIN361314
Secondary Antibody:	donkey anti-rabbit A647 conjugated antibody (Jackson Immunoresearch, 711-605-152, lot 123104)
Protocol:	• Grow hippocampal cells in Neurobasal medium 1x (Gibco, ref. 21103-049, lot 1880280) supplemented with B27 1x (Gibco, ref. 17-504-044, lot 1733317), 2mM L-glutamine (Gibco, ref. 25030-024, lot 1881896) and antibiotics (200U/ml penicillin, 200µg/ml streptomycin, Gibco, ref. 15140-122), at 37°C and 5% CO_2 at a density of 120×10^3 cells/ml on 18-mm diameter glass coverslips (Assistent) pre-coated with 50µg/ml poly-D,L-ornithine (Sigma-Aldrich, P3655, lot SLBL9424V). • Transfect cells with 0.5µg of Kv2.1_Dendra and 0.5µg of Homer_DsRed constructs (in-house made) using Transfectin Lipid transfection reagent (BioRad, ref 170-3351, lot 4206491) following the manufacturer´s instructions. • Fix hippocampal cell cultures on coverslips with 4% buffered formalin for 15min at RT. • Wash slides 2x in PBS (prepared from DPBS 10x, Gibco, 14200-067, lot 1754645). • Permeabilize cells with 0.25% Triton X-100 (Roth, 3051.3) in PBS for 4min at RT. • Wash slides 2x in PBS. • Block non-specific binding with PBS-Goat serum 10% (Goat serum: Gibco, 16210-064, lot 1158993) for 30min at RT. • Incubate slides with primary rabbit anti-Dendra2 antibody (antibodies-online, ABIN361314, lot R-053-AI-03) diluted 1:100 and mouse anti-MAP2 antibody (Chemicon, MAB 378, lot LV1414361) diluted 1:200 in PBS-Goat serum 10% for 1h at RT. • Wash slides 2x 5min in PBS-Goat serum 5%. • Incubate with secondary donkey anti-rabbit A647 conjugated antibody (Jackson

Immunoresearch, 711-605-152, lot 123104) and donkey anti-mouse A488 conjugated antibody (Jackson Immunoresearch, 715-545-150, lot 123589) diluted 1:250 in PBS-Goat serum 10% for 45min at RT.

- Wash slides 1x 5min in PBS.
- Mount coverslips with 10-20µl of Mowiol antifade reagent (Calbiochem, 475904, lot D00136768).
- Image acquisition on a Nikon Eclipse Ti microscope, 63x magnification.

Experimental Notes:	Staining pattern of Kv2.1_Dendra observed with ABIN361314 reflects the staining of the native protein Kv2.1 (obtained with its specific antibody).

Image for Validation report #101498



Validation image no. 1 for anti-Dendra 2 antibody (ABIN361314)

Hippocampal primary culture co-transfected with Kv2.1_Dendra and HomerDsRed (A, red fluorescence of Homer), stained with anti-Dendra2 ABIN361314 (B, revealed with A647-coupled secondary antibody) and anti-MAP2 antibody (C, revealed with A488-coupled secondary antibody). Merged images in (D), showing the labeling of anti-Dendra2 antibody (blue) that reveals the transfected cell identified by the fluorescence of HomerDsRed (red) but not the non-transfected cells (visible by the immunolabeling of MAP2, green). Scale bar: 10µm, 63x magnification.