10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DPF1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17526c

Specification

DPF1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q92782
Other Accession	P56163, Q9QX66, NP_004638.2, NP_001128628.1
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**44128**
Antigen Region	**220-247**

DPF1 Antibody (Center) - Additional Information

Gene ID 8193

Other Names
Zinc finger protein neuro-d4, BRG1-associated factor 45B, BAF45B, D4, zinc and double PHD fingers family 1, DPF1, BAF45B, NEUD4

Target/Specificity
This DPF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 220-247 amino acids from the Central region of human DPF1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DPF1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DPF1 Antibody (Center) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name DPF1 (HGNC:20225)

Synonyms BAF45B, NEUD4

Function May have an important role in developing neurons by participating in regulation of cell survival, possibly as a neurospecific transcription factor. Belongs to the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity).

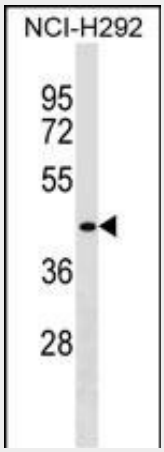
Cellular Location
Cytoplasm. Nucleus.

DPF1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DPF1 Antibody (Center) - Images



DPF1 Antibody (Center) (Cat. #AP17526c) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the DPF1 antibody detected the DPF1 protein (arrow).

DPF1 Antibody (Center) - Background

DPF1 may have an important role in developing neurons by participating in regulation of cell survival, possibly as a neurospecific transcription factor. Belongs to the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity).

DPF1 Antibody (Center) - References

Gudmundsson, J., et al. Nat. Genet. 41(10):1122-1126(2009)
Chestkov, A.V., et al. Genomics 36(1):174-177(1996)