

**DPF3 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI10123****Specification**

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**DPF3 antibody - middle region - Product Information**

Application	WB
Primary Accession	<a href="#">O92784</a>
Other Accession	<a href="#">O92784</a> , <a href="#">NP_036206</a> , <a href="#">NM_012074</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40 kDa KDa

**DPF3 antibody - middle region - Additional Information****Gene ID** 8110**Alias Symbol** CERD4, FLJ14079**Other Names**

Zinc finger protein DPF3, BRG1-associated factor 45C, BAF45C, Zinc finger protein cer-d4, DPF3, BAF45C, CERD4

**Target/Specificity**

DPF3 is a muscle-specific component of the BAF complex, a multiprotein complex involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). DPF3 specifically binds acetylated lysines on histone 3 and 4 (H3K14ac, H3K9ac, H4K5ac, H4K8ac, H4K12ac, H4K16ac). In the complex, it acts as a tissue-specific anchor between histone acetylations and methylations and chromatin remodeling. It thereby probably plays an essential role in heart and skeletal muscle development.

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-DPF3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

DPF3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**DPF3 antibody - middle region - Protein Information****Name** DPF3

**Synonyms** BAF45C, CERD4**Function**

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). Muscle-specific component of the BAF complex, a multiprotein complex involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Specifically binds acetylated lysines on histone 3 and 4 (H3K14ac, H3K9ac, H4K5ac, H4K8ac, H4K12ac, H4K16ac). In the complex, it acts as a tissue-specific anchor between histone acetylations and methylations and chromatin remodeling. It thereby probably plays an essential role in heart and skeletal muscle development.

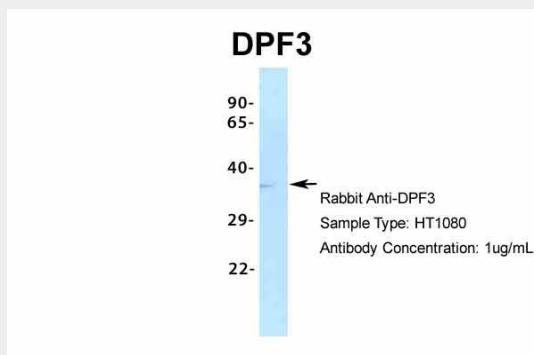
**Cellular Location**

Nucleus.

**DPF3 antibody - middle region - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DPF3 antibody - middle region - Images**

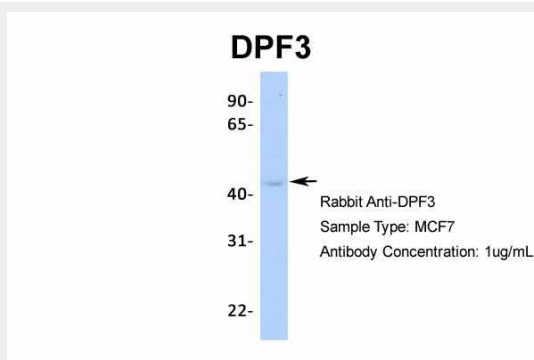
DPF3 antibody - middle region (A110123) in Human HT1080 cells using Western Blot

Host: Rabbit

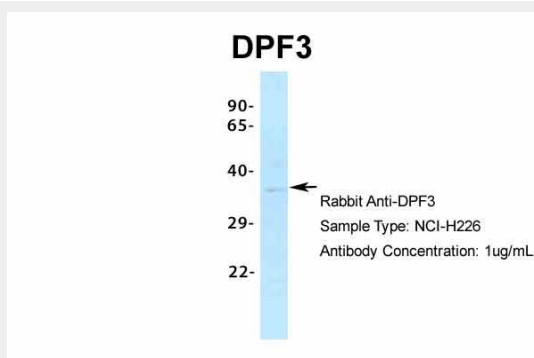
Target Name: DPF3

Sample Tissue: HT1080

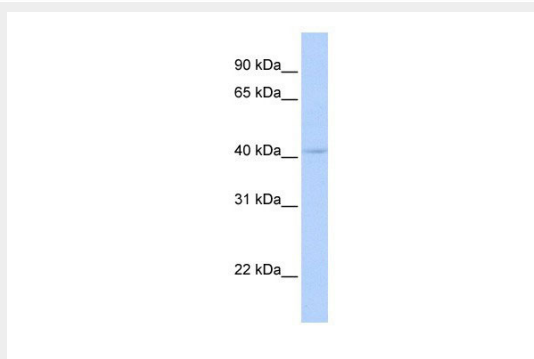
Antibody Dilution: 1.0µg/ml



DPF3 antibody - middle region (AI10123) in Human MCF7 cells using Western Blot  
Host: Rabbit  
Target Name: DPF3  
Sample Tissue: MCF7  
Antibody Dilution: 1.0µg/ml



DPF3 antibody - middle region (AI10123) in Human NCI-H226 cells using Western Blot  
Host: Rabbit  
Target Name: DPF3  
Sample Tissue: NCI-H226  
Antibody Dilution: 1.0µg/ml DPF3 is supported by BioGPS gene expression data to be expressed in NCIH226



DPF3 antibody - middle region (AI10123) in Human MCF-7 cells using Western Blot  
WB Suggested Anti-DPF3 Antibody Titration: 0.2-1 µg/ml  
ELISA Titer: 1:12500  
Positive Control: MCF7 cell lysate

#### DPF3 antibody - middle region - Background

This is a rabbit polyclonal antibody against DPF3. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire ([sales@abgent.com](mailto:sales@abgent.com)).