

**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.

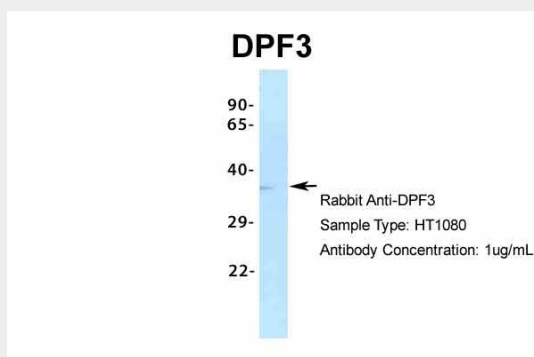
**Cellular Location**

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**

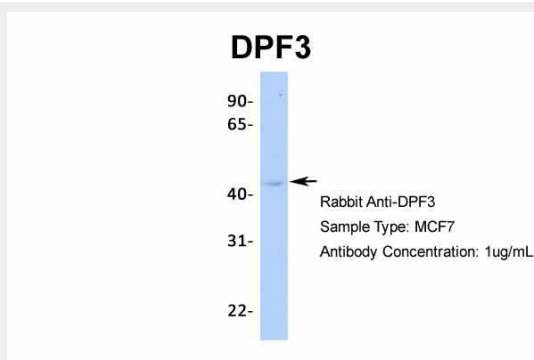
DPF3 antibody - middle region (A110123) in Human HT1080 cells using Western Blot

Host: Rabbit

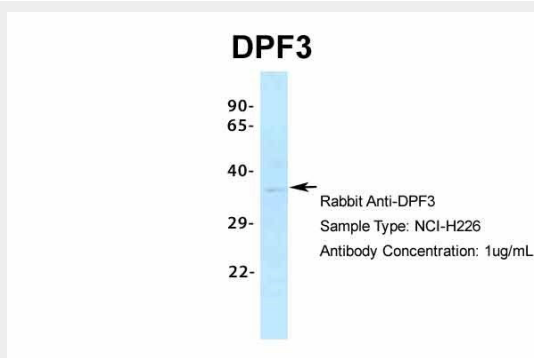
Target Name: DPF3

Sample Tissue: HT1080

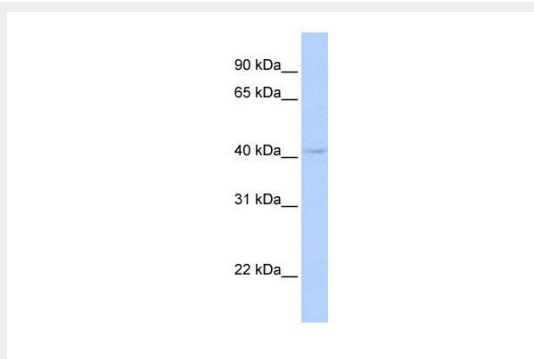
Antibody Dilution: 1.0µg/ml



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)).