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DPF3 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP5430C

Specification

DPF3 Blocking Peptide (Center) - Product Information

Primary Accession	Q92784
Other Accession	P58270, NP_036206.3

DPF3 Blocking Peptide (Center) - Additional Information

Gene ID 8110

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

Target/Specificity
The synthetic peptide sequence is selected from aa 158-171 of HUMAN DPF3

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DPF3 Blocking Peptide (Center) - 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 Blocking Peptide (Center) - Protocols

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

- Blocking Peptides

DPF3 Blocking Peptide (Center) - Images

DPF3 Blocking Peptide (Center) - References

Lange, M., et al. Genes Dev. 22(17):2370-2384(2008)
Vieira, A.R., et al. Genet. Med. 10(9):668-674(2008)
Hoyal, C.R., et al. J Carcinog 4, 13 (2005) :
Ninkina, N.N., et al. Mamm. Genome 12(11):862-866(2001)
Harrington, J.J., et al. Nat. Biotechnol. 19(5):440-445(2001)
Chestkov, A.V., et al. Genomics 36(1):174-177(1996)