

Cerebral 1 Polyclonal Antibody
Catalog # AP69055**Specification**

Cerebral 1 Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	O43159
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

Cerebral 1 Polyclonal Antibody - Additional Information**Gene ID** 23378**Other Names**

RRP8; KIAA0409; NML; hucep-1; Ribosomal RNA-processing protein 8; Cerebral protein 1; Nucleomethylin

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Cerebral 1 Polyclonal Antibody - Protein Information**Name** RRP8**Synonyms** KIAA0409, NML**Function**

Essential component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in response to intracellular energy status and acts by recruiting histone- modifying enzymes. The eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of NAD(+)/NADP(+) ratio activates SIRT1, leading to histone H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in the rDNA locus. In the complex, RRP8 binds to H3K9me2 and probably acts as a methyltransferase. Its substrates are however unknown.

Cellular Location

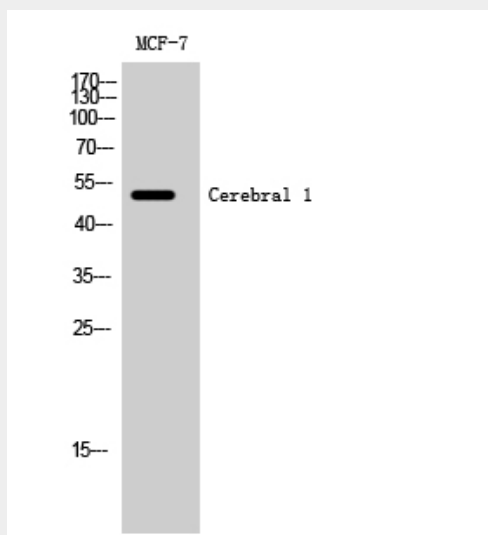
Nucleus, nucleolus Note=Localizes at rDNA locus

Cerebral 1 Polyclonal Antibody - Protocols

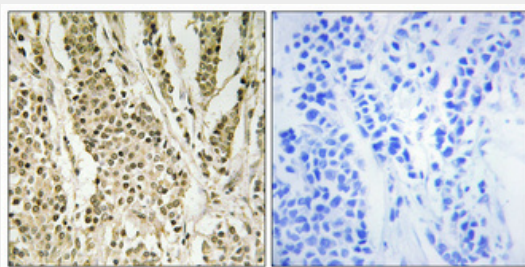
Provided below are standard protocols that you may find useful for product applications.

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

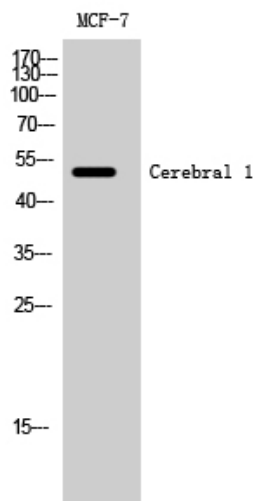
Cerebral 1 Polyclonal Antibody - Images



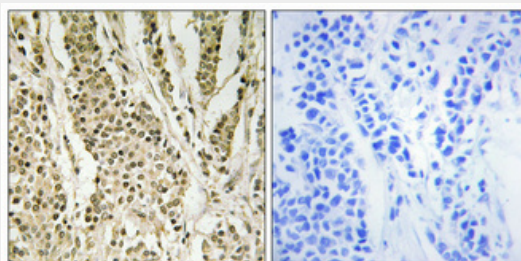
Western Blot analysis of MCF-7 cells using Cerebral 1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°, overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



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Cerebral 1 Polyclonal Antibody - Background

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