

Chtop (5E6) Rat Monoclonal Antibody
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Catalog # AP93630**Specification**

Chtop (5E6) Rat Monoclonal Antibody - Product Information

Application	IHC
Primary Accession	Q9CY57
Reactivity	Mouse
Clonality	Monoclonal
Calculated MW	26585

Chtop (5E6) Rat Monoclonal Antibody - Additional Information**Gene ID** 66511**Other Names**

Chromatin target of PRMT1 protein, Friend of PRMT1 protein, Small arginine- and glycine-rich protein, SRAG, Chtop, Fop

Dilution

IHC~~1:100~500

Storage Conditions

-20°C

Chtop (5E6) Rat Monoclonal Antibody - Protein Information**Name** Chtop**Synonyms** Fop**Function**

Plays an important role in the ligand-dependent activation of estrogen receptor target genes (By similarity). May play a role in the silencing of fetal globin genes (PubMed:20688955). Recruits the 5FMC complex to ZNF148, leading to desumoylation of ZNF148 and subsequent transactivation of ZNF148 target genes (PubMed:22872859). Required for the tumorigenicity of glioblastoma cells. Binds to 5- hydroxymethylcytosine (5hmC) and associates with the methylosome complex containing PRMT1, PRMT5, MEP50 and ERH. The CHTOP-methylosome complex associated with 5hmC methylates H4R3 and transactivates genes involved in glioblastomagenesis (PubMed:25284789).

Cellular Location

Nucleus. Nucleus, nucleolus. Nucleus, nucleoplasm. Nucleus speckle. Note=Mostly associated with facultative heterochromatin. Localizes to regions surrounding nuclear speckles known as perispeckles in which TREX complex assembly seems to occur (By similarity).

{ECO:0000250|UniProtKB:Q9Y3Y2, ECO:0000269|PubMed:19858291}

Tissue Location

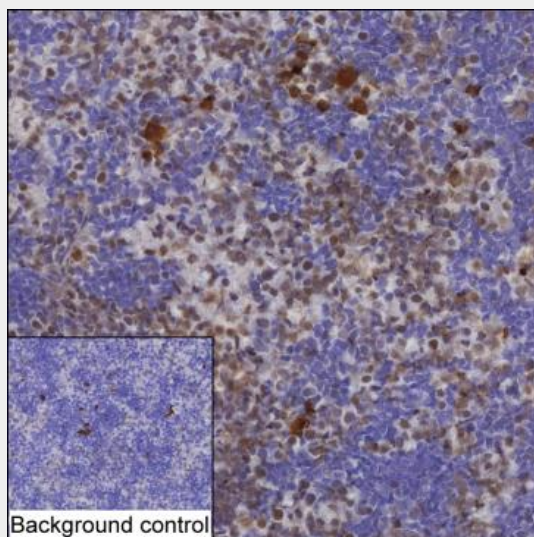
Broadly expressed with highest levels found in thymus, spleen, and lymph nodes. Expressed in an erythroid progenitor cell line derived from fetal liver.

Chtop (5E6) Rat Monoclonal 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](#)

Chtop (5E6) Rat Monoclonal Antibody - Images



IHC-P analysis of mouse spleen tissue by anti-mouse Chtop antibody (AP93630). IHC-P was performed using sections of the formalin-fixed paraffin-embedded mouse spleen tissue. Antigen was retrieved through addition of boiling Tris/EDTA buffer pH 9 in a pressure cooker for 3 min. Endogenous peroxidase activity was quenched by incubating the sections with 3% H₂O₂ for 30 min at room temperature. The sections were then incubated with anti-mouse Chtop primary antibody (AP93630) at 5 µg/mL at room temperature for 1 h. Poly-peroxidase conjugated goat anti-mouse IgG (which cross reacts with rat IgG) was used as the secondary antibody. Diaminobenzidine was used as the chromogen. The section was counterstained with hematoxylin. A tissue section incubated with phosphate-buffered saline followed by incubation with the secondary antibody was used as the background control. Result: Cells in red pulp and cells of white pulp are positively stained at the nuclei.