

Chtop (5E6) Rat Monoclonal Antibody

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Catalog # AP93630

Product Information

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

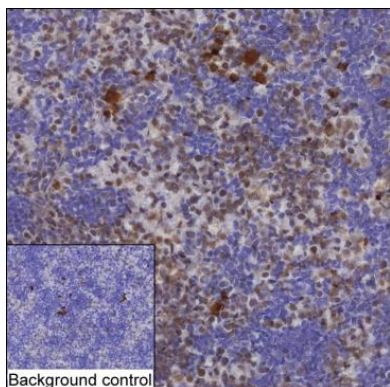
Additional Information

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

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.

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.

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