



C1orf77 Mouse mAb

Catalog No	YP-mAb-19034
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CHTOP C1orf77 FOP HT031 PP7704
Immunogen	Synthesized peptide derived from human C1orf77
Specificity	This antibody detects endogenous levels of C1orf77 at Human
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	C1orf77;chromatin target of chromatin target of PRMT1 protein;Chromatin target of PRMT1;Chromatin target of PRMT1 protein;Chromosome 1 open reading frame 77;CHTOP;CHTOP_HUMAN;DKFZp547E11;FL- RP1-178F15.2;FL-SRAG;FOP;Friend of PRMT1;Friend of PRMT1 protein;HT31;MGC131924;MGC86949;OTTHUMP35122;OTTHUMP35123;Pp774;RP1 178F15.2;Small arginine- and glycine-rich protein;Small protein rich in arginine and glycine;SRAG;SRAG-3;SRAG-5;CHTOP C1orf77 FOP HT031 PP7704;Chromatin target of PRMT1 protein (Friend of PRMT1 protein) (Small arginine- and glycine-rich protein) (SRAG)
Observed Band	
Calculated Molecular Weight	26 kDa; 26kD(Calculated).
Cell Pathway	Nucleus . Nucleus, nucleolus . Nucleus, nucleoplasm . Nucleus speckle . Mostly associated with facultative heterochromatin (By similarity). Localizes to regions surrounding nuclear speckles known as perispeckles in which TREX complex assembly seems to occur (PubMed:23826332). .
Tissue Specificity	Expressed in an erythroid progenitor cell line derived from peripheral blood. Expressed in glioblastoma cells (PubMed:25284789).

**Function**

Plays an important role in the ligand-dependent activation of estrogen receptor target genes . May play a role in the silencing of fetal globin genes . Recruits the 5FMC complex to ZNF148, leading to desumoylation of ZNF148 and subsequent transactivation of ZNF148 target genes (By similarity). Plays an important role in 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 is recruited to selective sites on the chromosome, where it methylates H4R3 and activates the transcription of genes involved in glioblastomagenesis . ; Required for effective mRNA nuclear export and is a component of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. Stimulates DDX39B ATPase and helicase activities. In cooperation with ALYREF/THOC4 enhances NXF1 RNA binding activity .

Background**matters needing attention**

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images