

ARG45229 anti-C1orf77 / FOP antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes C1orf77 / FOP
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	C1orf77 / FOP
Species	Human
Immunogen	Synthetic peptide corresponding to N-terminal region of human C1orf77 / FOP .
Conjugation	Un-conjugated
Alternate Names	CHTOP; Chromatin Target Of PRMT1; SRAG; FOP; C1orf77; Small Protein Rich In Arginine And Glycine; Chromatin Target Of PRMT1 Protein; Friend Of PRMT1 Protein; DKFZP547E1010; Small Arginine- And Glycine-Rich Protein; Chromosome 1 Open Reading Frame 77; Friend Of Prmt1; C10orf77; FL-SRAG; SRAG-3; SRAG-5; Pp7704

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	28 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

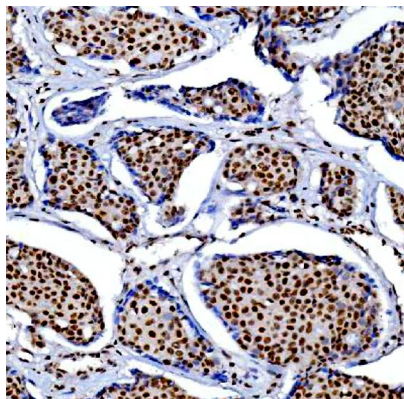
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

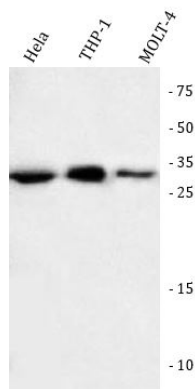
Gene Symbol	CTOP
Gene Full Name	Chromatin Target Of PRMT1
Background	This gene encodes a small nuclear protein that is characterized by an arginine and glycine rich region. This protein may have an important role in the regulation of fetal globin gene expression and in the activation of estrogen-responsive genes. A recent study reported that this protein binds 5-hydroxymethylcytosine (5hmC) and associates with an arginine methyltransferase complex (methylosome), which promotes methylation of arginine 3 of histone H4 (H4R3) and activation of genes involved in glioblastomagenesis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Function	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 NXF2 RNA binding activity. [Uniprot]
Calculated Mw	26 kDa
PTM	Acetylation, Isopeptide bond, Methylation, Phosphoprotein, Ubl conjugation. [Uniprot]
Cellular Localization	Nucleus. [Uniprot]

Images



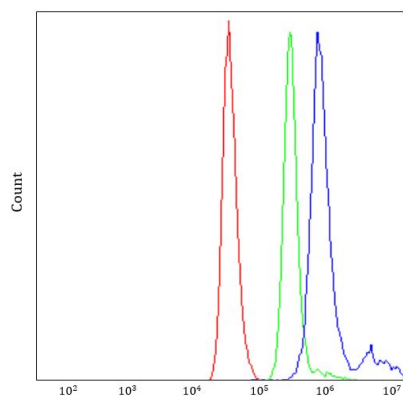
ARG45229 anti-C1orf77 / FOP antibody IHC-P image

Immunohistochemistry: Human breast cancer stained with ARG45229 anti-C1orf77 / FOP antibody at 2 µg/ml dilution.



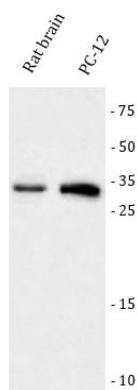
ARG45229 anti-C1orf77 / FOP antibody WB image

Western blot: HeLa, THP-1, and MOLT-4 stained with ARG45229 anti-C1orf77 / FOP antibody at 0.5 $\mu\text{g/ml}$ dilution.



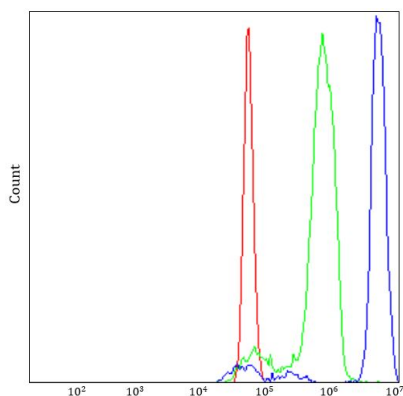
ARG45229 anti-C1orf77 / FOP antibody FACS image

Flow Cytometry: THP-1 stained with ARG45229 anti-C1orf77 / FOP antibody at 1 $\mu\text{g}/10^6$ cells dilution.



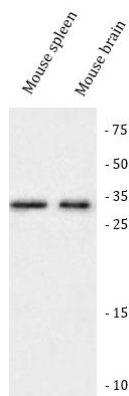
ARG45229 anti-C1orf77 / FOP antibody WB image

Western blot: Rat brain and PC-12 stained with ARG45229 anti-C1orf77 / FOP antibody at 0.5 $\mu\text{g/ml}$ dilution.



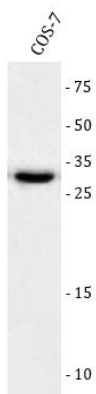
ARG45229 anti-C1orf77 / FOP antibody FACS image

Flow Cytometry: RH35 stained with ARG45229 anti-C1orf77 / FOP antibody at 1 $\mu\text{g}/10^6$ cells dilution.



ARG45229 anti-C1orf77 / FOP antibody WB image

Western blot: Mouse spleen and mouse brain stained with ARG45229 anti-C1orf77 / FOP antibody at 0.5 µg/ml dilution.



ARG45229 anti-C1orf77 / FOP antibody WB image

Western blot: COS-7 stained with ARG45229 anti-C1orf77 / FOP antibody at 0.5 µg/ml dilution.