10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SGF29 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP5140b

Specification

SGF29 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q96ES7

SGF29 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 112869

Other Names
SAGA-associated factor 29 homolog, Coiled-coil domain-containing protein 101, CCDC101, SGF29

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SGF29 Antibody (C-term) Blocking Peptide - Protein Information

Name SGF29 (HGNC:25156)

Function
Chromatin reader component of some histone acetyltransferase (HAT) SAGA-type complexes like the TFTC-HAT, ATAC or STAGA complexes (PubMed:19103755, PubMed:20850016, PubMed:26421618, PubMed:21685874, PubMed:26578293). SGF29 specifically recognizes and binds methylated 'Lys-4' of histone H3 (H3K4me), with a preference for trimethylated form (H3K4me3) (PubMed:20850016, PubMed:26421618, PubMed:21685874, PubMed:26578293). In the SAGA-type complexes, SGF29 is required to recruit complexes to H3K4me (PubMed:20850016). Involved in the response to endoplasmic reticulum (ER) stress by recruiting the SAGA complex to H3K4me, thereby promoting histone H3 acetylation and cell survival (PubMed:23894581). Also binds non-histone proteins that are methylated on Lys

residues: specifically recognizes and binds CGAS monomethylated on 'Lys-506' (By similarity).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:P0C606}.

SGF29 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SGF29 Antibody (C-term) Blocking Peptide - Images

SGF29 Antibody (C-term) Blocking Peptide - Background

CCDC101 is a subunit of 2 histone acetyltransferase complexes: the ADA2A (TADA2A; MIM 602276)-containing (ATAC) complex and the SPT3 (SUPT3H; MIM 602947)-TAF9 (MIM 600822)-GCN5 (KAT2A; MIM 602301)/PCAF (KAT2B; MIM 602303) acetylase (STAGA) complex. Both of these complexes contain either GCN5 or PCAF, which are paralogous acetyltransferases.

SGF29 Antibody (C-term) Blocking Peptide - References

Imielinski, M., et al. Nat. Genet. 41(12):1335-1340(2009)Wang, Y.L., et al. J. Biol. Chem. 283(49):33808-33815(2008)