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

PHF22 Antibody (N-term T88) Blocking Peptide
Synthetic peptide
Catalog # BP1912a

Specification

PHF22 Antibody (N-term T88) Blocking Peptide - Product Information

Primary Accession Q96CB8

PHF22 Antibody (N-term T88) Blocking Peptide - Additional Information

Gene ID 57117

Other Names
Integrator complex subunit 12, Int12, PHD finger protein 22, INTS12, PHF22

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1912a was selected from the N-term region of human PHF22. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PHF22 Antibody (N-term T88) Blocking Peptide - Protein Information

Name INTS12 {ECO:0000303|PubMed:38570683, ECO:0000312|HGNC:HGNC:25067}

Function
Component of the integrator complex, a multiprotein complex that terminates RNA polymerase II (Pol II) transcription in the promoter-proximal region of genes (PubMed:38570683). The integrator complex provides a quality checkpoint during transcription elongation by driving premature transcription termination of transcripts that are unfavorably configured for transcriptional elongation: the complex terminates transcription by (1) catalyzing dephosphorylation of the C- terminal domain (CTD) of Pol II subunit POLR2A/RPB1 and SUPT5H/SPT5, (2) degrading the exiting nascent RNA transcript via endonuclease activity and (3) promoting the release of Pol II from bound DNA (PubMed:38570683). The integrator complex is also involved in terminating the synthesis of non-coding Pol II transcripts, such as enhancer RNAs (eRNAs), small nuclear RNAs (snRNAs), telomerase RNAs and long

non-coding RNAs (lncRNAs) (PubMed:16239144). Mediates recruitment of cytoplasmic dynein to the nuclear envelope, probably as component of the integrator complex (PubMed:23904267).

Cellular Location
Nucleus

PHF22 Antibody (N-term T88) Blocking Peptide - Protocols

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

- Blocking Peptides

PHF22 Antibody (N-term T88) Blocking Peptide - Images

PHF22 Antibody (N-term T88) Blocking Peptide - Background

PHF22 is a component of the integrator complex stably associated with RNA polymerase II. The integrator complex mediates RNA polymerase-II-dependent transcription. This protein is recruited to the U1 and U2 snRNA genes and mediates the snRNA's 3' end processing.

PHF22 Antibody (N-term T88) Blocking Peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).