

POLR3K Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant POLR3K.

Catalog # AT3379a

Product Information

Application	WB, IF, E
Primary Accession	Q9Y2Y1
Other Accession	BC011932
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3F5
Calculated MW	12320

Additional Information

Gene ID	51728
Other Names	DNA-directed RNA polymerase III subunit RPC10, RNA polymerase III subunit C10, DNA-directed RNA polymerase III subunit K, RNA polymerase III 125 kDa subunit, RPC125, RNA polymerase III subunit C11, HsC11p, RPC11, hRPC11, POLR3K, RPC11
Target/Specificity	POLR3K (AAH11932, 1 a.a. ~ 108 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	POLR3K Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

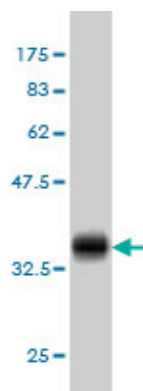
Background

This gene encodes a small essential subunit of RNA polymerase III, the polymerase responsible for synthesizing transfer and small ribosomal RNAs in eukaryotes. The carboxy-terminal domain of this subunit shares a high degree of sequence similarity to the carboxy-terminal domain of an RNA polymerase II elongation factor. This similarity in sequence is supported by functional studies showing that this subunit is required for proper pausing and termination during transcription. Pseudogenes of this gene are found on chromosomes 13 and 17.

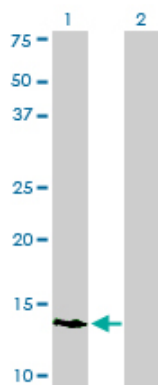
References

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348. Mammalian Maf1 is a negative regulator of transcription by all three nuclear RNA polymerases. Johnson SS, et al. Mol Cell, 2007 May 11. PMID 17499043. A regulatory SNP causes a human genetic disease by creating a new transcriptional promoter. De Gobbi M, et al. Science, 2006 May 26. PMID 16728641. The sequence and analysis of duplication-rich human chromosome 16. Martin J, et al. Nature, 2004 Dec 23. PMID 15616553. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Images

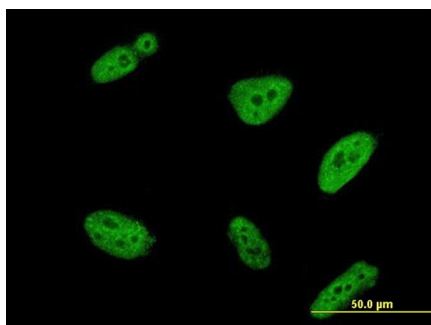


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.62 KDa) .

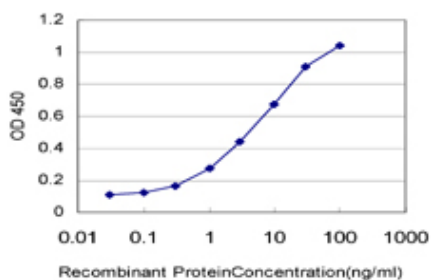


Western Blot analysis of POLR3K expression in transfected 293T cell line by POLR3K monoclonal antibody (M01), clone 3F5.

Lane 1: POLR3K transfected lysate (12.3 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to POLR3K on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged POLR3K is approximately 0.1 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.