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HNRNPG-T Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HNRNPG-T.
Catalog # AT2396a

Product Information

Application	WB, IHC, IF, E
Primary Accession	O75526
Other Accession	NM_014469
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	6F11
Calculated MW	42814

Additional Information

Gene ID	27288
Other Names	RNA-binding motif protein, X-linked-like-2, Testis-specific heterogeneous nuclear ribonucleoprotein G-T, hnRNP G-T, RBMXL2, HNRNPGT
Target/Specificity	HNRNPG-T (NP_055284, 1 a.a. ~ 90 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 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	HNRNPG-T Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

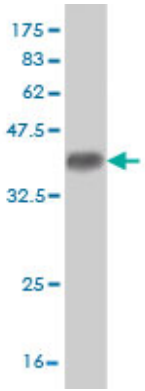
This gene belongs to the HNRPG subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene has two RRM domains that bind RNAs. This gene is intronless and is thought to be derived from a processed retroposon. However, unlike many retroposon-derived genes, this gene is not a pseudogene. The encoded protein has similarity to HNRPG and RBMY proteins and it is suggested to replace HNRPG protein function during meiotic prophase or act as a germ cell-specific splicing regulator. It primarily localizes to the nuclei of meiotic spermatocytes.

This gene is a candidate for autosomal male infertility.

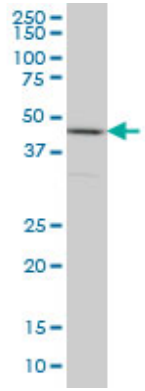
References

The germ cell nuclear proteins hnRNP G-T and RBMY activate a testis-specific exon. Liu Y, et al. PLoS Genet, 2009 Nov. PMID 19893608.Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.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.Large-scale characterization of HeLa cell nuclear phosphoproteins. Beausoleil SA, et al. Proc Natl Acad Sci U S A, 2004 Aug 17. PMID 15302935.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

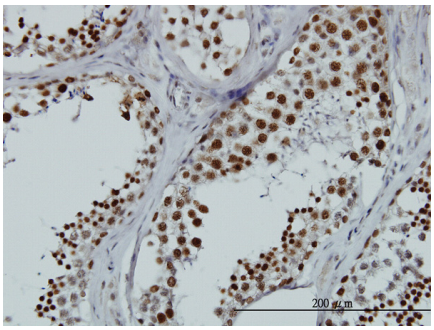
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.64 KDa) .

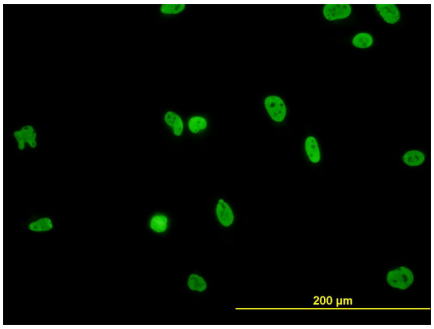


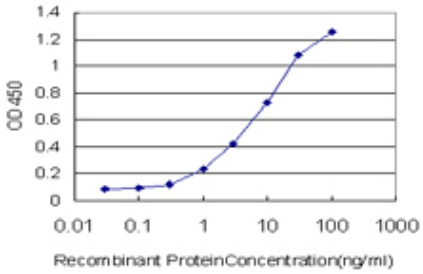
HNRNPG-T monoclonal antibody (M01), clone 6F11 Western Blot analysis of HNRNPG-T expression in HeLa ((Cat # AT2396a)



Immunoperoxidase of monoclonal antibody to HNRNPG-T on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]

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





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

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