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RNF14 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RNF14.
Catalog # AT3666a

Product Information

Application	WB, IF, E
Primary Accession	Q9UBS8
Other Accession	NM_004290
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4G9
Calculated MW	53837

Additional Information

Gene ID	9604
Other Names	E3 ubiquitin-protein ligase RNF14, 632-, Androgen receptor-associated protein 54, HFB30, RING finger protein 14, Triad2 protein, RNF14, ARA54
Target/Specificity	RNF14 (NP_004281, 217 a.a. ~ 316 a.a) partial 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	RNF14 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

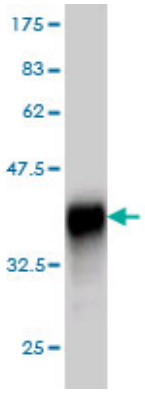
Background

The protein encoded by this gene contains a RING zinc finger, a motif known to be involved in protein-protein interactions. This protein interacts with androgen receptor (AR) and may function as a coactivator that induces AR target gene expression in prostate. A dominant negative mutant of this gene has been demonstrated to inhibit the AR-mediated growth of prostate cancer. This protein also interacts with class III ubiquitin-conjugating enzymes (E2s) and may act as a ubiquitin-ligase (E3) in the ubiquitination of certain nuclear proteins. Five alternatively spliced transcript variants encoding two distinct isoforms have been reported.

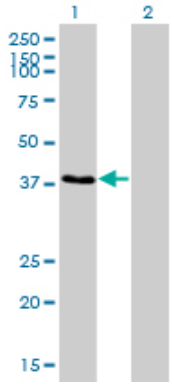
References

Regulation of androgen receptor transcriptional activity and specificity by RNF6-induced ubiquitination. Xu K, et al. Cancer Cell, 2009 Apr 7. PMID 19345326.Expression of androgen receptor co-regulators in the testes of men with azoospermia. Lan KC, et al. Fertil Steril, 2008 May. PMID 17919607.ARA54 is involved in transcriptional regulation of the cyclin D1 gene in human cancer cells. Kikuchi H, et al. Carcinogenesis, 2007 Aug. PMID 17510080.Suppression of androgen receptor transactivation and prostate cancer cell growth by heterogeneous nuclear ribonucleoprotein A1 via interaction with androgen receptor coregulator ARA54. Yang Z, et al. Endocrinology, 2007 Mar. PMID 17110431.Transgelin functions as a suppressor via inhibition of ARA54-enhanced androgen receptor transactivation and prostate cancer cell growth. Yang Z, et al. Mol Endocrinol, 2007 Feb. PMID 17082327.

Images

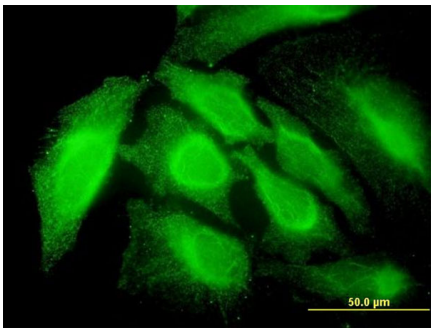


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

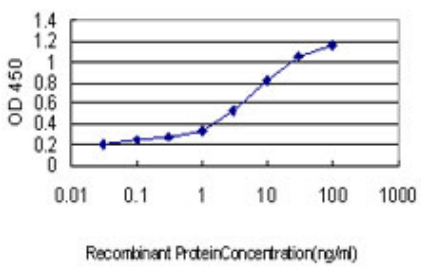


Western Blot analysis of RNF14 expression in transfected 293T cell line by RNF14 monoclonal antibody (M01), clone 4G9.

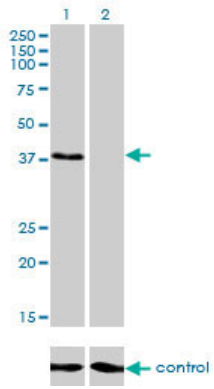
Lane 1: RNF14 transfected lysate(39.6 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to RNF14 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged RNF14 is approximately 0.1ng/ml as a capture antibody.



Western blot analysis of RNF14 over-expressed 293 cell line, cotransfected with RNF14 Validated Chimera RNAi ((Cat # AT3666a)