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

ING3 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant ING3.
Catalog # AT2534a

Product Information

Application	WB, IF, E
Primary Accession	Q9NXR8
Other Accession	NM_198267
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2C4
Calculated MW	46743

Additional Information

Gene ID	54556
Other Names	Inhibitor of growth protein 3, p47ING3, ING3
Target/Specificity	ING3 (NP_938008, 1 a.a. ~ 92 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	ING3 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

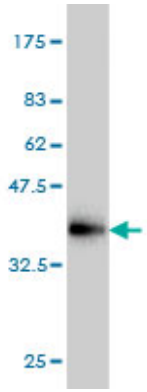
The protein encoded by this gene is similar to ING1, a tumor suppressor protein that can interact with TP53, inhibit cell growth, and induce apoptosis. This protein contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. This gene can activate p53 trans-activated promoters, including promoters of p21/waf1 and bax. Overexpression of this gene has been shown to inhibit cell growth and induce apoptosis. Allelic loss and reduced expression of this gene were detected in head and neck cancers. Two alternatively spliced transcript variants encoding different isoforms have been observed.

References

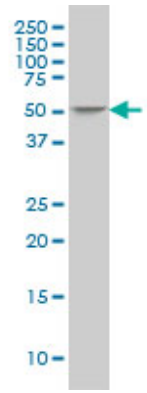
The tumor suppressor ING3 is degraded by SCF(Skp2)-mediated ubiquitin-proteasome system. Chen G, et al.

Oncogene, 2010 Mar 11. PMID 19935701.High-density SNP association study and copy number variation analysis of the AUTS1 and AUTS5 loci implicate the IMMP2L-DOCK4 gene region in autism susceptibility. Maestrini E, et al. Mol Psychiatry, 2010 Sep. PMID 19401682.Downregulation of ING3 mRNA expression predicts poor prognosis in head and neck cancer. Gunduz M, et al. Cancer Sci, 2008 Mar. PMID 18081876.Prognostic significance of nuclear ING3 expression in human cutaneous melanoma. Wang Y, et al. Clin Cancer Res, 2007 Jul 15. PMID 17634537.ING2 PHD domain links histone H3 lysine 4 methylation to active gene repression. Shi X, et al. Nature, 2006 Jul 6. PMID 16728974.

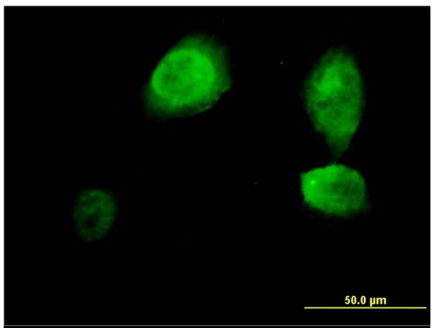
Images



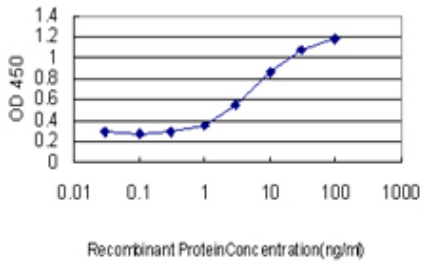
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.86 KDa) .



ING3 monoclonal antibody (M02), clone 2C4 Western Blot analysis of ING3 expression in PC-12 ((Cat # AT2534a)



Immunofluorescence of monoclonal antibody to ING3 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged ING3 is approximately 1ng/ml as a capture antibody.

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