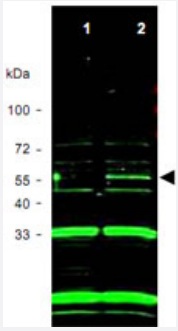
ING3 polyclonal antibody

Catalog # PAB10081 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western blot using ING3 polyclonal antibody (Cat # PAB10081) shows detection of a band at ~55 KDa corresponding to ING3 in RKO cells transfected with ING3 (Lane 2).
Control RKO cells do not show detection of this specific band (lane1).
The identity of the non-specific bands at 33 KDa and 20 KDa has not been determined.
Each lane contains approximately 10 ug of RKO whole cell lysate (ATCC# CRL-2577 - human coloncancer) separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred to nitrocellulose.
After blocking with 5% NF dry milk, the membranewas probed with the primary antibody diluted to1:1,000.
Incubation was at 4°C overnight followed by washes and reaction with a 1:20,000 dilution of IRDye™800 conjugated Rb-a-Goat IgG[H&L] MXHu for 45 min at room temperature.
IRDye™800 fluorescence imagewas captured using the Odyssey® Infrared Imaging System developed by LI-COR.
IRDye isa trademark of LI-COR, Inc.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ING3.
Immunogen	A synthetic peptide corresponding to amino acids 294-304 of human ING3.
Host	Goat
Reactivity	Chimpanzee, Dog, Human, Orangutan, Rat
Form	Liquid

Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:10000-1:40000) Western Blot (1:200-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ING3

Entrez GeneID	54556
Protein Accession#	Q9HC99;NP_061944(isoform1);AAG12172
Gene Name	ING3
Gene Alias	Eaf4, FLJ20089, ING2, p47ING3
Gene Description	inhibitor of growth family, member 3
Omim ID	607493
Gene Ontology	Hyperlink

Gene Summary	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. [provided by RefSeq
Other Designations	-

Publication Reference

- Phylogenetic analysis of the ING family of PHD finger proteins.

  He GH, Helbing CC, Wagner MJ, Sensen CW, Riabowol K.

  Molecular Biology and Evolution 2005 Jan; 22(1):104.

- A novel PHD-finger motif protein, p47ING3, modulates p53-mediated transcription, cell cycle control, and apoptosis.

  Nagashima M, Shiseki M, Pedeux RM, Okamura S, Kitahama-Shiseki M, Miura K, Yokota J, Harris CC.

  Oncogene 2003 Jan; 22(3):343.

  Application: WB-Tr, Human, RKO cells

- Different HATS of the ING1 gene family.

  Feng X, Hara Y, Riabowol K.

  Trends in Cell Biology 2002 Nov; 12(11):532.

Disease

- Autistic Disorder
- Genetic Predisposition to Disease