

For Research Use Only

# CoraLite® Plus 488-conjugated ING4 Monoclonal antibody

Catalog Number: CL488-67754



## Basic Information

<b>Catalog Number:</b> CL488-67754	<b>GenBank Accession Number:</b> BC007781	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 51147	<b>CloneNo.:</b> 1A12A3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9UNL4	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> inhibitor of growth family, member 4	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG4610	<b>Calculated MW:</b> 29 kDa	
	<b>Observed MW:</b> 29 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : human colon cancer tissue,
<b>Species Specificity:</b> Human, rat, pig	

## Background Information

ING4, also named as p29ING4, belongs to the ING family. It is a component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. It may inhibit tumor progression by modulating the transcriptional output of signaling pathways which regulate cell proliferation. ING4 can suppress brain tumor angiogenesis through transcriptional repression of RELA/NFKB3 target genes when complexed with RELA. It may also specifically suppress loss of contact inhibition elicited by activated oncogenes such as MYC. Represses hypoxia inducible factor's (HIF) activity by interacting with HIF prolyl hydroxylase 2 (EGLN1). ING4 is a tumor suppressor gene that interacts with NFkB and represses its transcriptional activity. Several lines of evidence suggest that the tumor suppressor gene ING4, NFkB and its target genes matrix metalloproteases MMP-2, MMP-9 and u-PA are critically involved in tumor invasion.

## Storage

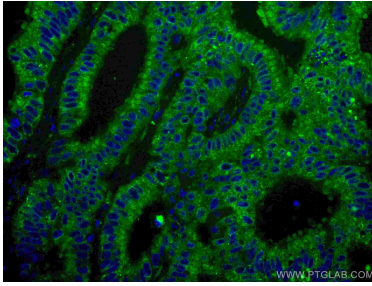
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human colon cancer tissue using CoraLite® Plus 488 ING4 antibody (CL488-67754, Clone: 1A12A3 ) at dilution of 1:200.