abcam

ab248045

Anti-ING1 antibody [EPR6788] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR6788
Purification technique	Affinity purification Protein A
Concentration	1.044 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

WB

Tested

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

Species	Human, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information ING1

Function	Cooperates with p53/TP53 in the negative regulatory pathway of cell growth by modulating p53-dependent transcriptional activation. Implicated as a tumor suppressor gene.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab248045 is the carrier-free version of ab124893.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The target ING1 also known as Inhibitor of Growth Protein 1 is a tumor suppressor protein with a mass of approximately 33 kDa. It functions mechanically by interacting with chromatin and transcriptional machinery to regulate cell growth apoptosis and DNA repair. ING1 localizes both in the nucleus and cytoplasm showing expression in various tissues but particularly in those with high proliferation rates.
Biological function summary	As part of the chromatin remodeling complex ING1 contributes to the regulation of gene expression by promoting histone acetylation. It affects the cellular response to stress and helps maintain genomic stability. Through interactions with other proteins in the complex ING1 influences cell cycle checkpoints and can induce apoptosis when DNA damage is irreparable.
Pathways	Several important cellular signaling cascades involve ING1. Notably it plays a role in the p53 signaling pathway where it collaborates with the tumor protein p53 to enhance transcriptional activation of downstream genes associated with growth arrest and apoptosis. Additionally ING1 participates in the PI3K/AKT pathway influencing cell survival and metabolism by modulating PI3K-mediated phosphorylation events.
Associated diseases and disorders	Studies indicate that ING1 has significant links to cancer such as breast and colorectal cancer. Loss or mutation of ING1 disrupts its tumor suppressive functions leading to unchecked cellular proliferation. Moreover its interaction with the protein TP53 highlights its relevance in tumorigenesis as disruptions can impair p53-mediated tumor suppressive pathways further contributing to cancer development.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

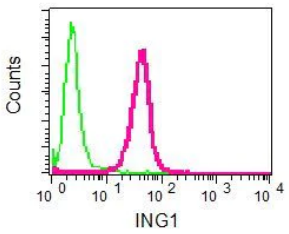
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

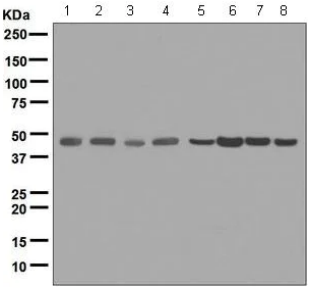
2 product images



Flow Cytometry (Intracellular) - Anti-ING1 antibody [EPR6788] - BSA and Azide free (ab248045)

ING1 Flow Cytometry (Intracellular) staining using rabbit Anti-ING1 antibody

This data was developed using ab124893, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of ab124893, at 1/10 dilution, staining ING1 in permeabilised NIH/3T3cells (red). Isotype control (Green).



Western blot - Anti-ING1 antibody [EPR6788] - BSA and Azide free (ab248045)

ING1 Western blot staining using rabbit Anti-ING1 antibody

This data was developed using ab124893, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-ING1 antibody [EPR6788] (ab124893) at 1/1000 dilution

Lane 1:
HepG2 lysate at 10 µg

Lane 2:
HeLa lysate at 10 µg

Lane 3:
MCF-7 lysate at 10 µg

Lane 4:
Jurkat lysate at 10 µg

Lane 5:
C6 lysate at 10 µg

Lane 6:
RAW 264.7 lysate at 10 µg

Lane 7:
PC-12 lysate at 10 µg

Lane 8:
NIH/3T3 lysate at 10 µg

Predicted band size: 47 kDa

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