abcam

**ab124893**

# Anti-ING1 antibody [EPR6788]

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Clone number** | EPR6788 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 0.1 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

### IP

**Not recommended**

| | |
|---|---|
| **Species** | Mouse, Rat, Human |
| **Dilution info** | - |
| **Notes** | - |

### WB

### Tested

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/1000 - 1/10000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/1000 - 1/10000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/1000 - 1/10000 |
| **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** | 1/10 - 1/100 |

| | |
|---|---|
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

**Expected**

| | |
|---|---|
| **Species** | Rat, Human |
| **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** | Conditional Ambient |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | -20°C |
| **Storage information** | Stable for 12 months at -20°C |

## Notes

**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.

## 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**

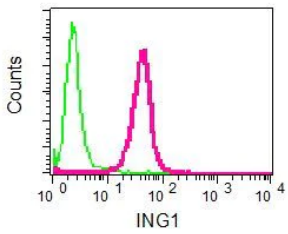
We do not recommend this combination. It is not covered by our product promise.

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.

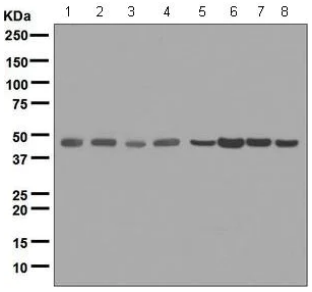
## 2 product images




### Flow Cytometry (Intracellular) - Anti-ING1 antibody [EPR6788] (ab124893)

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

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] (ab124893)

ING1 Western blot staining using rabbit Anti-ING1 antibody

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'.