

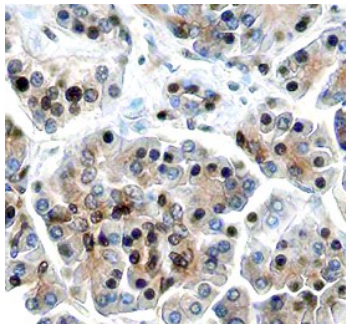
| DESCRIPTION | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human ING1 in direct ELISAs. In direct ELISAs and Western blots, no cross-reactivity with recombinant human ING2, 3, 4, or 5 is observed. |
| Source | Monoclonal Mouse IgG ₁ Clone # 585922 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human ING1 Arg70-Ala184 Accession # Q9UK53 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

| APPLICATIONS | |
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| Please Note: Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website. | |

| | Recommended Concentration | Sample |
|-----------------------------|---------------------------|-----------|
| Immunohistochemistry | 8-25 µg/mL | See Below |

DATA

Immunohistochemistry



ING1 in Human Pancreas. ING1 was detected in immersion fixed paraffin-embedded sections of human pancreas using Human ING1 Monoclonal Antibody (Catalog # MAB57581) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to exocrine cell nuclei. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Sterile PBS to a final concentration of 0.5 mg/mL. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

ING1 (inhibitor of growth-1) is a member of the ING family of tumor suppressive and apoptosis-promoting epigenetic regulators of chromatin structure. They interact with and alter the ratio of pro- and anti-apoptotic Bcl-2 family members. The p53 tumor suppressor and its downstream targets can potentiate ING1-induced apoptosis. Human isoforms p33ING1, p24ING1c, p33ING1b and p47ING1a vary in N-terminal sequence, resulting in 279, 210, 235 and 422 aa proteins, respectively. The sequence used as an immunogen is common to all isoforms, and shares 83% and 81% amino acid (aa) identity with mouse and rat ING1, respectively.