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## 36-1258: Polyclonal Antibody to IDH1 (Isocitrate Dehydrogenase)(Discontinued)

Clonality: Polyclonal Application: FACS, IF, WB Reactivity: Human Gene: IDH1 Gene ID: 3417 **Uniprot ID:** 075874 Format: Purified IDH1,PICD **Alternative Name:** Isotype: Rabbit IgG

Immunogen Information: Recombinant fragment (119 Amino acid residues; aa 296-414) of human IDH1 protein

## **Description**

It recognizes a 45kDa protein, which is identified as isocitrate dehydrogenase (IDH1). It belongs to the isocitrate and isopropylmalate dehydrogenases family. IDH1 catalyzes the third step of the citric acid cycle, which involves the oxidative decarboxylation of isocitrate, forming alpha-ketoglutarate and CO2 in a two-step reaction. The first step involves the oxidation of isocitrate to the intermediate oxalosuccinate, while the second step involves the production of alpha-ketoglutarate. During this process, either NADH or NADPH is produced along with CO2. Recently, an inactivating mutation of IDH1 has been implicated in glioblastoma. IDH1 appears to function as a tumor suppressor that, when mutationally inactivated, contributes to tumorigenesis in part through induction of the HIF-1 pathway.

## **Product Info**

Amount:  $100 \mu g$ 

**Purification:** Affinity Chromatography

**Content:** 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

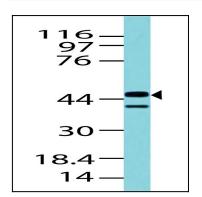
toxic.

**Storage condition :** Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Flow Cytometry (0.5-1 $\tilde{A}$  $\square$  $\hat{A}\mu g/million$  cells); Immunofluorescence (0.5-1 $\tilde{A}$  $\square$  $\hat{A}\mu g/ml$ ); Western Blot (0.5-1 $\tilde{A}$  $\square$  $\hat{A}\mu g/ml$ ); Optimal dilution for a specific application should be determined.



Western Blot Analysis of A431 Cell Lysate using IDH1 Polyclonal Antibody (Rabbit)