9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

Clonality :	Polyclonal
Application :	FACS,IF,WB
Reactivity :	Human
Gene :	IDH1
Gene ID :	3417
Uniprot ID :	O75874
Format :	Purified
Alternative Name :	IDH1,PICD
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant fragment (119 Amino acid residues; aa 296-414) of human IDH1 protein

Description

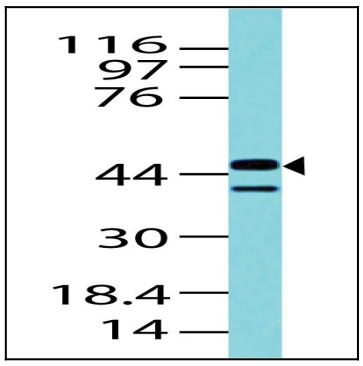
It recognizes a 45kDa protein, which is identified as isocitrate dehydrogenase (IDH1). It belongs to the isocitrate and isopropylmalate dehydrogenases family. IDH1 catalyzes the third step of the citric acid cycle, which involves the oxidative decarboxylation of isocitrate, forming alpha-ketoglutarate 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 µg
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 (0.5-1Ã‚µg/million cells); Immunofluorescence (0.5-1Ã‚µg/ml); Western Blot (0.5-1Ã‚µg/ml); Optimal dilution for a specific application should be determined.



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