

Mouse Monoclonal Antibody to IDH1

Catalogue Number	sAP-1437
Target Molecule	Name: IDH1 Aliases: DOC1; APC10 MW: 21.3kDa Entrez Gene ID: 10393
Description	Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+) -dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+) -dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+) -dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+) -dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. It contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH
Immunogen	Purified recombinant fragment of human IDH1 (AA: 156-298) expressed in E. Coli.
Reactive Species	Human; Mouse; Monkey;
Clone	MM4A4A8;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
Reconstitution/Storages	Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: ; ICC: ; FCM: 1 to 200 - 1 to 400
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1.Cancer Cell. 2015 Dec 14;28(6):773-84. ; 2.Int J Cancer. 2015 Sep 1;137(5):1058-65. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**