

Mouse anti-Isocitrate Dehydrogenase 1 IDH1-R132S, clone SMab-1 (Monoclonal)

Clone no. Smab

MONOSAN

Product name	Mouse anti-Isocitrate Dehydrogenase 1 IDH1-R132S, clone SMab-1 (Monoclonal)
Host	Mouse
Applications	IHC-P (1:25-1:50)
Species reactivity	human
Conjugate	-
Immunogen	KLH-conjugated peptide human IDH1-R132S
Isotype	IgG1k
Clonality	Monoclonal
Clone number	Smab
Size	1 ml
Concentration	lot specific
Format	-
Storage buffer	Tissue culture supernatant with sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

Isocitrate dehydrogenase 1 (IDH1) is a 46 kDa NADPdependent enzyme, which catalyzes the decarboxylation of isocitrate into α -ketoglutarate. IDH1 may also play a role in the prevention of oxidative damage, and the shuttling of proteins to peroxisomes. It is widely reported that mutations in IDH1 result in multiple forms of gliomas. The Arginine to Serine substitution at amino acid 132 is seen in gliomas, abolishes magnesium binding and alters enzyme activity so that isocitrate is no longer converted to α -ketoglutarate but instead α -ketoglutarate is converted to R(-)-2-hydroxyglutarate.

References

1. Kaneko et al. 2011;406:608-613
2. -
3. -
4. -
5. -

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