



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-IDH1 R132H [10G5-1] Bulk Size Ab03872-1.1-BT

**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** 10G5-1

**Alternative Name(s) of Target:** IDH; IDH1; IDPc; Isocitrate dehydrogenase [NADP] cytoplasmic; Isocitrate dehydrogenase 1; Cytosolic NADP-isocitrate dehydrogenase; NADP(+)-specific ICDH; Oxalosuccinate decarboxylase

**UniProt Accession Number of Target Protein:** O75874

**Published Application(s):** ELISA, IHC

**Published Species Reactivity:** Human

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with human IDH-R132H polypeptide (KPIIGHHAYGDQYC) with an N-terminal BSA conjugation.

**Specificity:** This antibody binds human isocitrate dehydrogenase 1 (IDH1) having R132H mutation. IDH1 is an enzyme that catalyzes the NADP<sup>+</sup>-dependent oxidative decarboxylation of isocitrate (D-threo-isocitrate) to 2-ketoglutarate (2-oxoglutarate), which is required by other enzymes such as the phytanoyl-CoA dioxygenase. It plays a critical role in the generation of NADPH, an important cofactor in many biosynthesis pathways. The NADPH produced from isocitrate dehydrogenase 1 is involved in the breakdown of fats for energy, and it also protects cells from potentially harmful molecules called reactive oxygen species. Mutation in IDH1 are found in several genetic conditions and in some types of cancer, including gliomas, cartilaginous tumors, acute myelogenous leukemia, myelodysplastic syndromes, and brain cancer.

**Application Notes:** The binding reactivity of this antibody to R132H mutant of human IDH1 was determined using ELISA. The original mouse IgG antibody binds IDH1 R132H mutant with an affinity of  $K_d = 5.76 \times 10^{-10}$  M. This antibody was used in the immunohistochemical analysis for detection of IDH1 R132H protein in cancerous tissues (CN108727500).

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

### Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.