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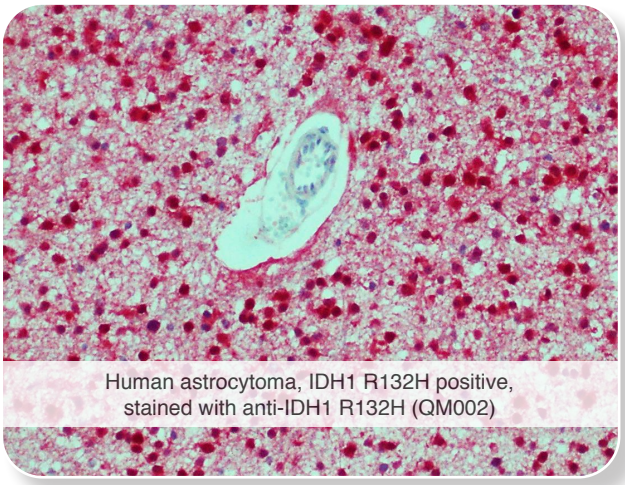
Q clones

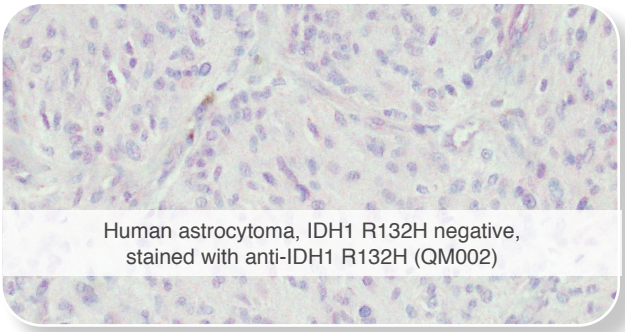
IDH1 R132H (clone QM002)

Mouse Monoclonals - Highly specific for R132H point mutation

Isocitrate dehydrogenase 1 is a cytoplasmic enzyme that 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. It is expressed in a wide range of species and also in organisms that lack a complete citric acid cycle.
The IDH1 R132H point mutation is shown in more than 70 % of gliomas. The antibody QM002 is highly specific in detection of the mutant protein and contributes the differentiation between a glioblastoma and an anaplastic glioma. [1-5]



Human astrocytoma, IDH1 R132H positive, stained with anti-IDH1 R132H (QM002)



Human astrocytoma, IDH1 R132H negative, stained with anti-IDH1 R132H (QM002)

Literature:

[1] Yan H, Parson W, Jin G *et al.* (2009). N Engl J Med. 360:765-773.

[2] Capper D, Weißert S, Balss J *et al.* (2009). Acta Neuropathol. 118:599-601.

[3] Mardis ER, Ding L, Dooling DJ *et al.* (2009). N Engl J Med. 361:1058-1066.

[4] Camelo-Piragua S, Jansen M, Ganguly *et al.* (2010). Acta Neuropathol. 119:509-511.

[5] Horbinsky C, Kofler J, Yeaney G *et al.* (2011). Brain Pathol. 21(5):564-74.

Order information:

Antibody	Catalog number	Format
Isocitrate dehydrogenase 1 R132H (QM002)	C-I001-01	100 µl, concentrate
Isocitrate dehydrogenase 1 R132H (QM002)	C-I001-05	500 µl, concentrate
Isocitrate dehydrogenase 1 R132H (QM002)	C-I001-10	1 ml, concentrate
Isocitrate dehydrogenase 1 R132H (QM002)	P-I001-10	1 ml, ready-to-use
Isocitrate dehydrogenase 1 R132H (QM002)	P-I001-30	3 ml, ready-to-use
Isocitrate dehydrogenase 1 R132H (QM002)	P-I001-70	7 ml, ready-to-use

Take a look at our Rabbit Monoclonals: **PD-L1 (QR001), PRAME (QR005), SOX10 (QR006), p63 (QR007)** and others. Please contact our service team for further information.

Research use only (RUO) - IVD validation in progress

quartett Immunodiagnostika, Biotechnologie + Kosmetik Vertriebs GmbH
Schichauweg 16, 12307 Berlin, Germany
Tel: +49 (0)30 - 76 59 25 - 0, Fax: +49 (0)30 - 76 59 25 - 55
info@quartett.com, www.quartett.com