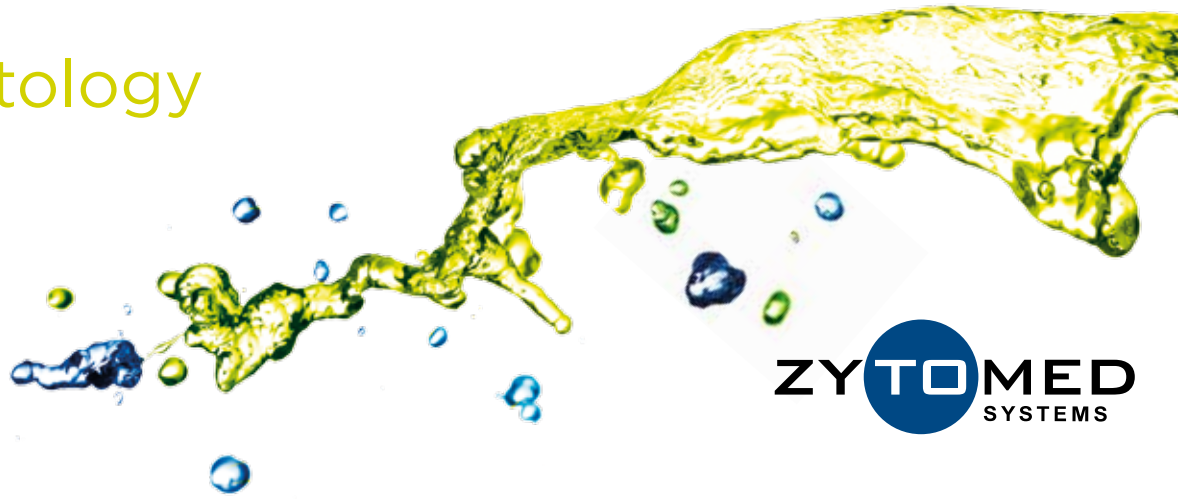


Immunohistology

Glioma



New Antibodies for the Diagnosis of Diffuse Glioma

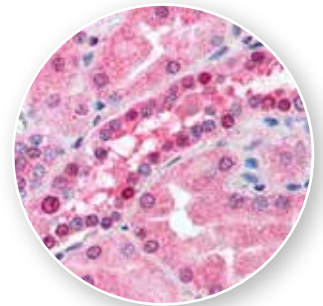
► ATRX

ATRX, also known as ATP-dependent helicase ATRX, X-linked helicase II, or X-linked nuclear protein (XNP), belongs to the SWI/SNF family of chromatin remodeling proteins. ATRX mutations in gliomas

result in the loss of nuclear ATRX expression, which can be diagnosed by IHC analysis. There is good concordance between IHC results and ATRX mutation status.

► Product description

Description	Status	Format	Dilution	Volume	Cat. No.
ATRX Clone: 60.1 Host: Mouse	RUO	Concentrate	1:200	50 µg (1 mg/ml)	101-0630



ATRX on human kidney

► Olig2

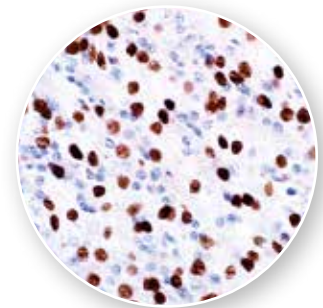
Oligodendrocyte Lineage Transcription Factor 2, a basic helix-loop-helix transcription factor, plays a key role in oligodendrocyte and motor neuron differentiation.

Olig2 is universally expressed in glioblastomas and other diffuse gliomas such as astrocytomas, oligodendrogliomas, and oligoastrocytoma, making it a useful positive diagnostic marker of these brain tu-

mors. In particular, Olig2 is selectively expressed in a subgroup of glioma cells that are highly tumorigenic. Non-glioma tumors, such as neuroepithelial tumors, ependymomas, and neurocytomas express little or no Olig2. Anti-Olig2 antibody is more specific to gliomas than the commonly used anti-GFAP and therefore represents an ideal complement of the antibody panel for the diagnosis of diffuse glioma.

► Product description

Description	Method	Format	Dilution	Volume	Cat. No.	Status
Olig2 Clone: 211F1.1 Host: Mouse	P	Ready-to-use	-	6 ml	MSG115	CE/IVD
		Concentrate	1:25 – 1:100	0.5 ml	MSK115-05	



Olig2 on oligodendroglioma

► Literature

Wesseling P *et al.* Oligodendroglioma: pathology, molecular mechanisms and markers. *Acta Neuropathol* 129:809-827, 2015

Reuss DE *et al.* ATRX and IDH1-R132H immunohistochemistry with subsequent copy number analysis and IDH sequencing as a basis for an „integrated“ diagnostic approach for adult astrocytoma, oligodendroglioma and glioblastoma. *Acta Neuropathol* 129: 133-146, 2015

Otero JJ *et al.* OLIG2 is differentially expressed in pediatric astrocytic and in ependymal neoplasms. *J Neurooncol* 104:423-438, 2011

Švajdler M *et al.* SOX10 and Olig2 as negative markers for the diagnosis of ependymomas: An immunohistochemical study of 98 glial tumors. *Histol Histo-pathol* 31:95-102, 2016

Durand KS *et al.* 1p19q LOH patterns and expression of p53 and Olig2 in gliomas: relation with histological types and prognosis. *Mod Pathol* 23:619-628, 2010