

## NGFR

<b>CONTACT INFORMATION:</b>	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
<b>STATUS:</b>	Validated
<b>TYPE:</b>	Rat monoclonal
<b>CLONE NAME:</b>	NORI146C
<b>PROTEIN:</b>	NGFR Tumor necrosis factor receptor superfamily member 16
<b>PROTEIN WEB:</b>	<a href="https://www.uniprot.org/uniprot/Q9Z0W1">https://www.uniprot.org/uniprot/Q9Z0W1</a>
<b>ANTIGEN USED:</b>	His-mNGFR (276-427aa) protein
<b>FUSION PARTNER:</b>	NS1/Ag4-1 (NS1) cells
<b>ISOTYPE:</b>	IgG2a
<b>SPECIES REACTIVITY:</b>	mouse
<b>PREPARATION AND STORAGE:</b>	Aliquot and store at 4C. Do not freeze

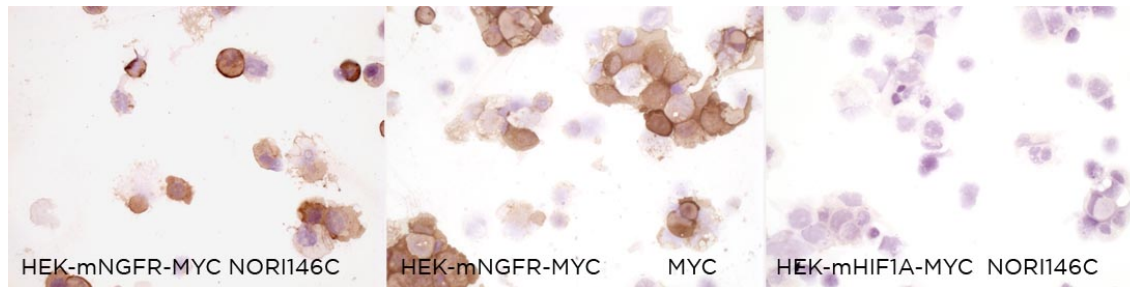
### DESCRIPTION

Low affinity neurotrophin receptor which can bind to mature NGF, BDNF, NTF3, and NTF4. Forms a heterodimeric receptor with SORCS2 that binds the precursor forms of NGF (proNGF), BDNF (proBDNF) and NTF3 (proNT3) with high affinity, and has much lower affinity for mature NGF and BDNF. Plays an important role in differentiation and survival of specific neuronal populations during development. Can mediate cell survival as well as cell death of neural cells. The heterodimeric receptor formed with SORCS2 plays a role in proBDNF-dependent synaptic plasticity, in hippocampal long term depression (LTD) and long term potentiation (LTP). Plays a role in the inactivation of RHOA (By similarity). Plays a role in the regulation of the translocation of GLUT4 to the cell surface in adipocytes and skeletal muscle cells in response to insulin, probably by regulating RAB31 activity, and thereby contributes to the regulation of insulin-dependent glucose uptake.

### APPLICATIONS

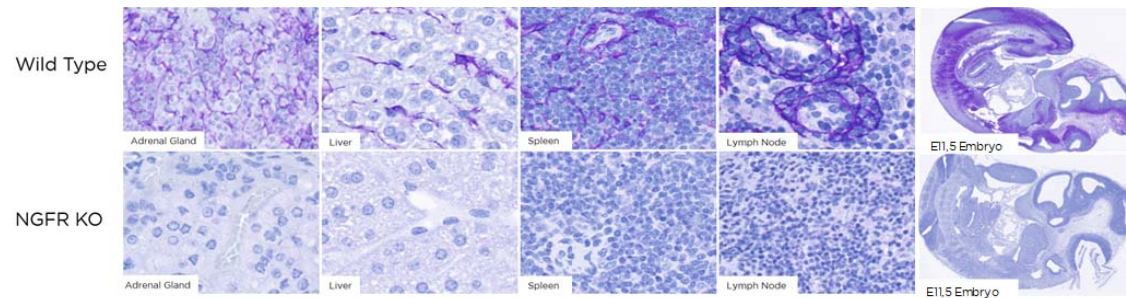
IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopins									

Recommended	NOR11 46C	Neat	supernatant						
<b>Paraffin tissue</b>									
Recommended	NOR11 46C	1:200	supernatant						
<b>Immunofluorescence</b>									
Recommended	NOR11 46C	1:1	supernatant						



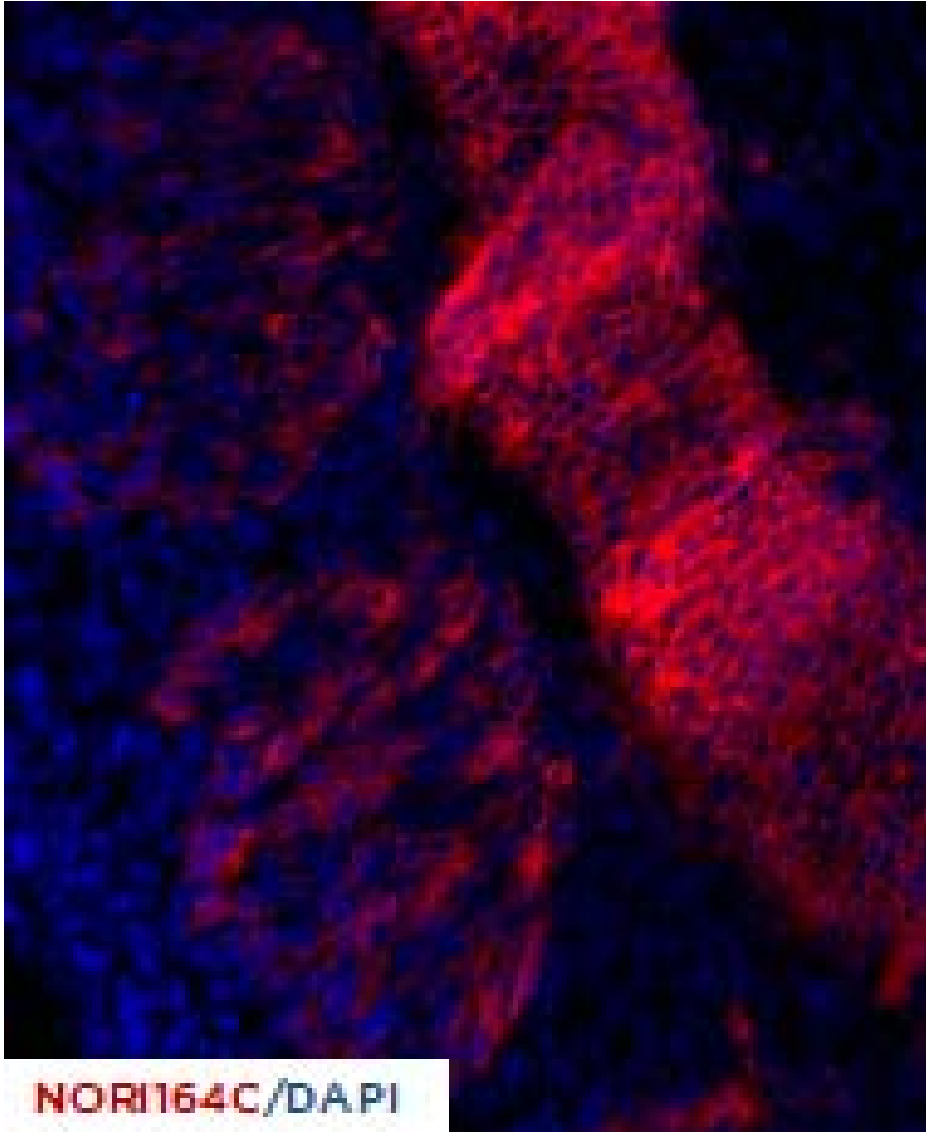
**NORI146C mAb is able to detect mouse NGFR protein in immunocytochemistry.**

To confirm that NORI146C mAb recognizes mouse NGFR protein, immunocytochemistry on frozen cytopins preparations of MYC-tagged mNGFR expressed in HEK293 was performed. Anti-MYC was used as positive control. Cytopsin of HEK293 transfected with mouse HIF1a were used as a negative control.



**NORI146C mAb is able to detect mouse NGFR protein by immunohistochemistry in paraffin samples.**

Paraffin samples of NGFR KO mouse model B6.129S4-Ngfrtm1Jae/6J.OlaHsd



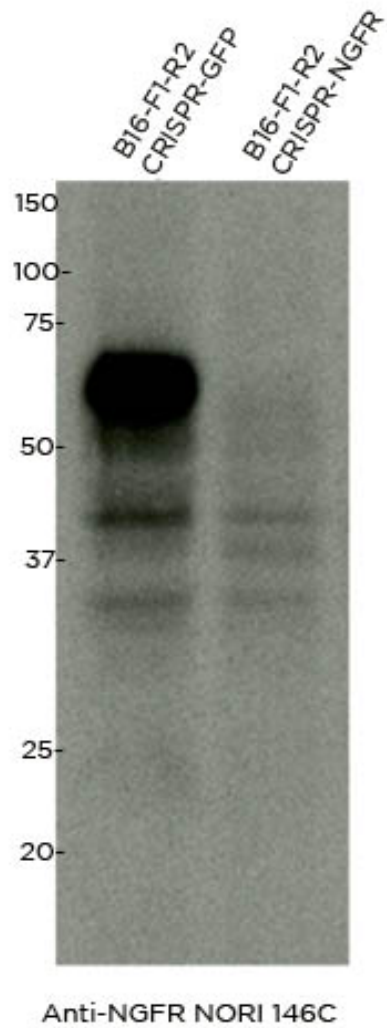
**NOR146C/DAPI**

**NOR146C mAb is able to detect mouse NGFR protein by immunofluorescence in tissue samples**

TISSUE SAMPLE: Dorsal root ganglions of C57BL/6J.OlaHsd E10.5 Mouse embryo

## Monoclonal Antibodies Catalogue

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
<b>Western Blotting</b>								
Recommended	NORI146 C	Neat	supernatant			45	60	
<b>Immunoprecipitation</b>								



**NORI146C mAb is able to detect mouse NGFR protein by WB.**

LANES

Lane 1 Melanoma Cell line B16-F1-R2 WT (30ug) (+)

Lane 2 Melanoma Cell line B16-F1-R2 KO (30ug) (+)