

## Mouse Monoclonal Antibody to

# Insulin Receptor (phospho-Tyr 1150/1151)

## clone 10C3

**Order No.:** 0143-100/InsR-10C3  
**Size (µg)** 100  
**Lot No.:** 0143S



[www.nanotools.de](http://www.nanotools.de)

**orders & support:**

email: [info@nanotools.de](mailto:info@nanotools.de)  
 phone: +49-7641-455 670  
 fax: +49-7641-455 671

02/160307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human	WB, ELISA	97 kDa	HEK-293	phosphotyrosine 1150/1151 E T D pY pY R K	phosphopeptide conjugated to hemocyanin

### Background and Specificity:

The insulin receptor (InsR) is a heterodimeric receptor tyrosine kinase with an extracellular alpha-chain, a transmembrane domain and an intracellular beta-chain. The insulin receptor is activated upon binding of the peptide hormone insulin, leading to autophosphorylation of tyrosine residues 1146, 1150, and 1151 in the activation loop of the beta-chain. Additional phosphorylation sites such as tyrosine residues 960, 1316, and 1322 regulate the assembly of signal transduction complexes.

**Mab InsR-10C3** recognizes Insulin receptor phosphorylated at tyrosine residues 1150/1151 and also the IGF1 receptor.

### Related Products

**mab to IGF1R (phospho-Tyr 1316)**

#0128-100/IGF1R-2B9

**mab to IGF1R (C-terminus)**

#0198-100/IGF1R-7G11

**mab to InsR (phospho-Tyr 1322)**

#0127-100/InsR-21G12

**mab to InsR (activation loop, phosphorylation independent)**

#0142-100/InsR-9H4

**mab to InsR (C-terminus)**

#0160-100/InsR-11B6

**Purification:** The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

**Formulation:** liquid; 0.1mg/ml in PBS/0.09% Na-Azide/PEG and Sucrose/50% Glycerol

**Reconstitution:**

**Stability:** Aliquote and store at -20°C up to 1 year.

**Avoid repeated freeze / thaw cycles.**

**Positive Control:** #0873: Cell lysate from insulin-treated HEK-293 cells

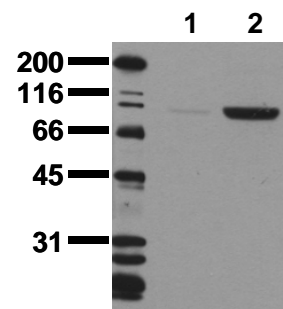
**Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection  
**Recommended blocking buffer:** Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

**Immunoprecipitation:** ND

**Immunocytochemistry:** ND

**ELISA:** use at 0.1 µg/ml

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**



**Phosphospecificity**

Whole cell extracts of control (1) or insulin stimulated (2) MDA-MB-213 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab InsR-10C3 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).