

## Mouse Monoclonal Antibody to

# Insulin Receptor (C-terminus)

## clone 11B6

**Order No.:** 0160-100/InsR-11B6  
**Size (µg)** 100  
**Lot No.:** 0160S



[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, mouse, rat, dog	WB, ELISA	97 kDa	HepG2	C-terminus	peptide 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-11B6** specifically recognizes the C-terminus of Insulin receptor (phosphorylation-independent).

### 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 1150/1151)**  
#0143-100/InsR-10C3
- mab to InsR (phospho-Tyr 1322)**  
#0127-100/InsR-21G12
- mab to InsR (activation loop, phosphorylation independent)**  
#0142-100/InsR-9H4

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

**Formulation:** lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

**Reconstitution:** Reconstitute with 1 ml H<sub>2</sub>O (15 min, RT).

**Stability:** For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

**Avoid repeated freeze / thaw cycles.**

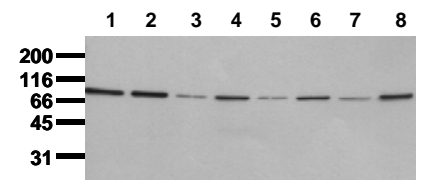
**Positive Control:** #0811: Cell lysate from untreated HepG2 cells

**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



**Detection of endogenous InsR**  
Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab InsR-11B6 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).  
lane 1: HeLa; lane 2: HepG2; lane 3: HEK293; lane 4: SH-SY5Y; lane 5: MDCK; lane 6: PC12; lane 7: CMT 93; lane 8: Neuro 2A

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