

## Mouse Monoclonal Antibody to

# IGF1 Receptor (phospho-Tyr 1316)

## clone 2B9

**Order No.:** 0128-100/IGF1R-2B9

**Size (µg):** 100

**Lot No.:** 0128S



02/160307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human	WB, ELISA	97 kDa	HEK-293	phosphotyrosine 1316 R Q P pY A H M	phosphopeptide conjugated to hemocyanin

### Background and Specificity:

The IGF1 receptor (IGF1R) is a heterodimeric receptor tyrosine kinase with an extracellular alpha-chain, a transmembrane domain and an intracellular beta-chain. The IGF1 receptor is activated upon binding of the peptide hormones IGF1 and IGF2, leading to autophosphorylation of tyrosine residues 1131, 1135, and 1136 in the activation loop of the beta-chain. Additional autophosphorylation sites such as tyrosine residues 950 and 1316 regulate the assembly of signal transduction complexes.

**Mab IGF1R-2B9** specifically recognizes the IGF1 receptor phosphorylated at tyrosine 1316.

### Related Products

#### 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

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

#0160-100/InsR-11B6

<b>Purification:</b>	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
<b>Formulation:</b>	lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.
<b>Reconstitution:</b>	Reconstitute with 1 ml H <sub>2</sub> O (15 min, RT).
<b>Stability:</b>	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:** #0873: Cell lysate from Insulin-treated HEK-293 cells

**Immunoblotting:** 1 µg/ml for HRPO/ECL detection

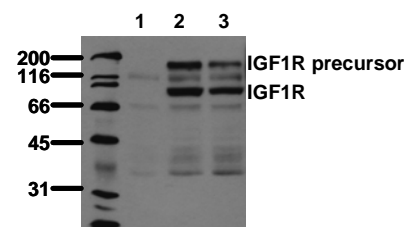
**Recommended blocking buffer:** Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

**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 (co) or Insulin, IGF1 stimulated HeLa tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to PVDF membranes. Immunoblots were probed with mab IGF1R-2B9 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

lane1: Co; lane 2: Insulin; lane 3: IGF1