Mouse Monoclonal Antibody to

IGF1 Receptor (phospho-Tyr 1316)

clone 2B9

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

Size (µg) 100

Lot No.: 0128S

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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 tranduction 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

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_2O (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: #0873: Cell lysate form Insulin-treated HEK-293 cells

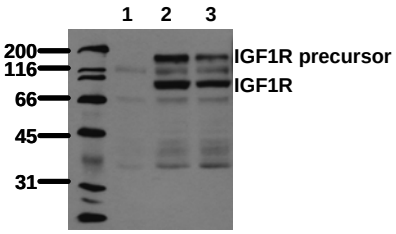
Immunoblotting: 1 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

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