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Mouse Monoclonal Antibody to

Insulin Receptor (phospho-Tyr 1150/1151)

clone 10C3

Order No.: **0143-100/InsR-10C3**

Size (µg) 100

Lot No.: 0143S

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

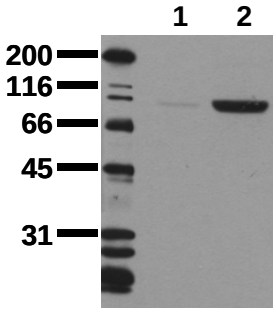
Reconstitution:

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.



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).

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.