

Mouse Monoclonal Antibody to

Insulin Receptor (phospho-Tyr 1322)

clone 21G12

Order No.: 0127-100/InsR-21G12
Size (µg) 100
Lot No.: 0127S



02/160307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB, ELISA	97 kDa	HEK-293	phosphotyrosine 1322 H I P p Y T H M	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-21G12 specifically recognizes Insulin receptor phosphorylated at tyrosine 1322.

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 (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 H₂O (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: #0872: Cell lysate from pervanadate-treated HEK-293 cells

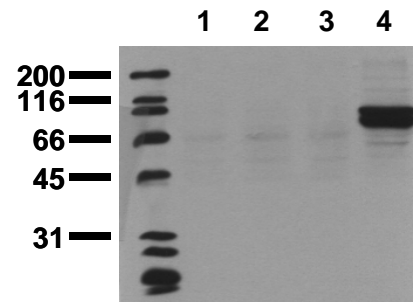
Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

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 (co) or Insulin, IGF1, Pervanadate stimulated MDA-MB-231 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to PVDF membranes. Immunoblots were probed with mab InsR-21G12 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).
 lane1: untreated; lane 2: Insulin-treated; lane 3: IGF1-treated; lane 4: Pervanadate-treated