

Mouse Monoclonal Antibody to

Insulin Receptor (activation loop)

clone 9H4

Order No.: 0142-100/InsR-9H4
Size (µg) 100
Lot No.: 0142S



03/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA, IHC	97 kDa	T47D	kinase activation loop	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-9H4 specifically recognizes the activation loop 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 (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.

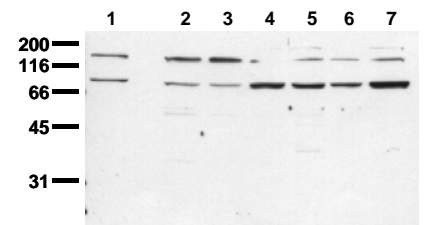
Positive Control: #1011: Cell lysate from untreated T47D cells

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



Detection of endogenous InsR
Whole cell extracts 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-9H4 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 3 min).
lane 1: A431; lane 2: SW480; lane 3: SW620; lane 4: HT29; lane 5: MCF-7; lane 6: MDA-MB231; lane 7: T47D

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