

AM00076PU-N**Monoclonal Antibody to CD220 / INSR pTyr1322 (incl. pos. control) - Purified**

Alternate names:	Insulin Receptor
Quantity:	0.1 mg
Background:	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.
Uniprot ID:	P06213
NCBI:	NP_000199.2
GenElD:	3643
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	21G12
Immunogen:	Synthetic phosphopeptide conjugated to KLH. Epitope: Phosphotyrosine 1322 (HIP _p YTHM)
Format:	State: Lyophilized purified IgG fraction Purification: Size Exclusion Chromatography Buffer System: 1 ml 2 x PBS containing 0.09% Sodium Azide, PEG and Sucrose Reconstitution: Restore with 1 ml H ₂ O (15 min, RT).
Applications:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. Included Positive Control: Cell lysate from pervanadate-treated HEK-293 cells. ELISA: 0.1 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody specifically recognizes Insulin receptor phosphorylated at Tyrosine 1322. Species: Human, Mouse, Dog. Other species not tested.
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. Shelf life: one year from despatch.

Protocols:

Positive Control: Cell lysate from pervanadate-treated HEK-293 cells.

Format: Lyophilized cell lysate from HEK-293 cells.
Serum starved cells were treated for 15 minutes with pervanadate.

Reconstitution: Restore by addition of 200 µl H₂O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application: The positive control cell lysate is recommended for immunoblot applications.

20 µl of positive control cell lysate correspond to ca. 20.000 cells.
Use 20 µl/lane (mini gel) for HRPO/ECL detection of the target proteins.

Please NOTE: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as in immunoprecipitation.

Pictures:

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 Monoclonal InsR antibody 21G12 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: untreated Lane 2: Insulin-treated Lane 3: IGF1-treated Lane 4: Pervanadate-treated

