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Product datasheet for AM00076PU-N

Insulin Receptor (INSR) pTyr1322 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 21G12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	21G12
Applications:	ELISA, WB
Recommended Dilution:	**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.
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH. **Epitope:** Phosphotyrosine 1322 (HIP*p*YTHM)
Specificity:	This antibody specifically recognizes Insulin receptor phosphorylated at Tyrosine 1322.
Formulation:	1 ml 2 x PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H_2O (15 min, RT).
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin receptor

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Database Link: Entrez Gene 3643 Human
P06213

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.

Synonyms: Insulin Receptor

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

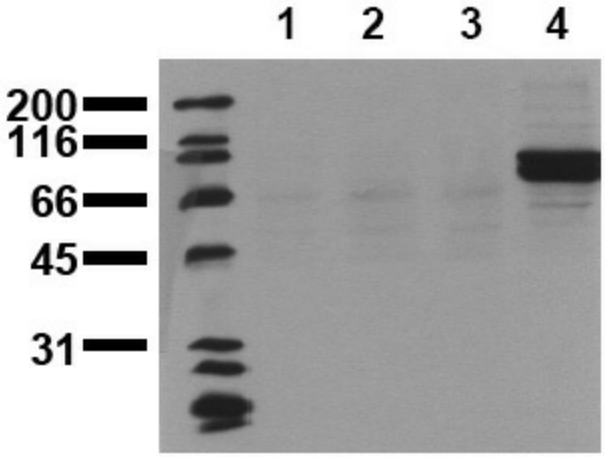
Format: Lyophilized cell lysate from HEK-293 cells.
Serum starved cells were treated for 15 minutes with pervanadate.

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 conatin SDS and are not recommended for applications with native proteins such as in immunoprecipitation.

Product images:



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 ug/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