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Product datasheet for AM00077PU-N

Insulin Receptor (INSR) (beta chain) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 9H4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9H4
Applications:	ELISA, IHC, WB
Recommended Dilution:	**ELISA: 0.1 µg/ml.** **Immunohistochemistry on Frozen Sections.** **Western Blot**: 1 µg/ml for HRPO/ECL detection. ***Recommended blocking buffer:*** Casein/Tween 20 based blocking and blot incubation buffer. ***Included Positive Control:*** Cell lysate from untreated T47D cells. **Positive Control: Cell lysate from untreated T47D cells.** **Format:** Lyophilized cell lysate from Serum starved T47D cells **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 contains SDS and are not recommended for applications with native proteins such as in immunoprecipitation. **Storage:** Aliquote reconstituted product and store frozen. Avoid repeated fereezing and thawing.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH. **Epitope:** Kinase Activation Loop
Specificity:	This antibody specifically recognizes the activation loop of Insulin receptor (phosphorylation-independent).

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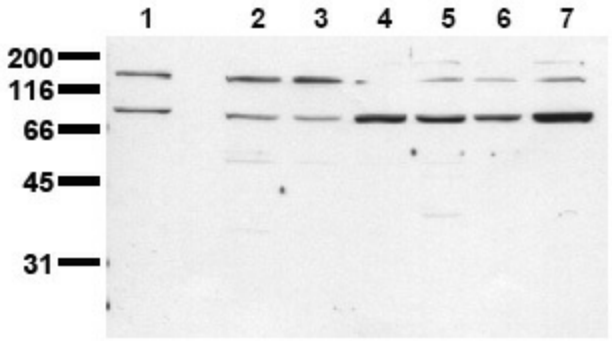
Formulation:	1 ml 2 x PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H2O (15 min, RT).
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in 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
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

Product images:



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 ug/ 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