

Product datasheet for **AM00078PU-N**

Insulin Receptor (INSR) (beta chain) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 11B6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	11B6
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 0.1 µg/ml. 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 Provided: Cell lysate from untreated HepG2. Formulation: Lyophilized cell lysate from serum starved HepG2 cells. Reconstitution: Reconstitute by addition of 200 µl H ₂ O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min. Aliquote and store frozen. Avoid repeated freezing and thawing. Application: The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 80.000 cells. Use 20µl / 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 immunoprecipitation.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH
Specificity:	This antibody specifically recognizes the C-terminus of Insulin receptor (phosphorylation-independent).
Formulation:	1ml 2 x PBS with 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent thiophilic adsorption and size exclusion chromatography



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Conjugation: Unconjugated

Storage: Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -20 to -80°C.
Avoid repeated freezing and thawing.
Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 97 kDa

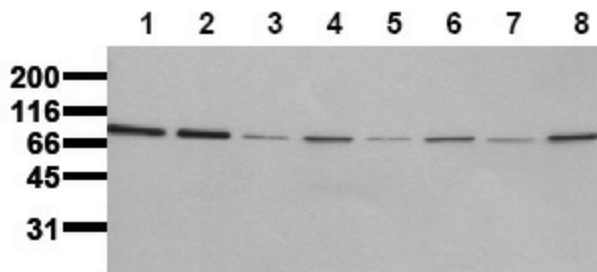
Gene Name: insulin receptor

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 lysates 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-11B6 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: HeLa; lane 2: HepG2; lane 3: HEK293; lane 4: SH-SY5Y; lane 5: MDCK; lane 6: PC12; lane 7: CMT 93; lane 8: Neuro 2A