

Product datasheet for **AM00071PU-N**

IGF1 Receptor (IGF1R) pTyr1316, (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 2B9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2B9
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 1 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. Positive Control Included: Cell lysate form Insulin-treated HEK-293 cells.(Please see also "Protocols"). ELISA: 0.1 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH.
Specificity:	This antibody specifically recognizes the IGF1 receptor phosphorylated at tyrosine 1316.
Formulation:	1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose State: Purified State: Lyophilized purified IgG
Reconstitution Method:	Restore with 1 ml H ₂ O (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 like growth factor 1 receptor



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Database Link: [Entrez Gene 3480 Human P08069](#)

Background: The IGF1 receptor (IGF1R) is a heterodimeric receptor tyrosine kinase with an extracellular alpha-chain, a transmembrane domain and an intracellular beta-chain. The IGF1 receptor is activated upon binding of the peptide hormones IGF1 and IGF2, leading to autophosphorylation of tyrosine residues 1131, 1135, and 1136 in the activation loop of the beta-chain. Additional autophosphorylation sites such as tyrosine residues 950 and 1316 regulate the assembly of signal transduction complexes.

Synonyms: IGF-I receptor, IGF1 Receptor

Note: Protocol: **Positive Control Cell Lysate, Insulin-treated**

Formulation: Lyophilized cell lysate from HEK-293 cells. Serum starved cells were treated for 15 min with insulin.

Reconstitution: Reconstitute by addition of 200 μ l H₂O. After complete solubilization add 200 μ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min. (Aliquote and store frozen. Avoid repeated freeze/thaw cycles).

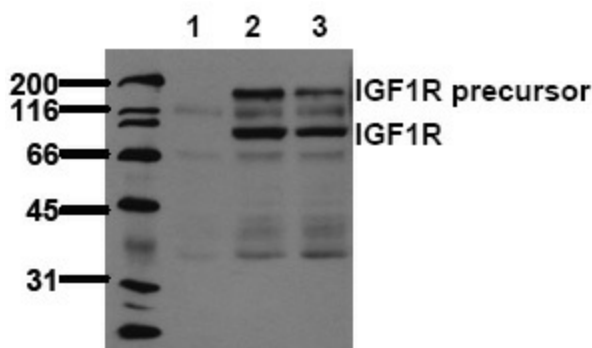
Application: The positive cell lysate is recommended for immunoblot applications. 20 μ l of positive cell lysate correspond to ca. 20.000 cells.

Use 20 μ l / lane (mini gel) for HRPO/ECL detection of target proteins.

Please Note:

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

Product images:



Phosphospecificity Whole cell extracts of control (co) or Insulin, IGF1 stimulated HeLa tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to PVDF membranes. Immunoblots were probed with mab IGF1R-2B9 (0.5 μ g/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: Co; lane 2: Insulin; lane 3: IGF1