

Product datasheet for **AM20221PU-N**

Raptor (RPTOR) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 10E10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10E10
Applications:	WB
Recommended Dilution:	Immunoblotting: 0.5 µg/ml for HRPO/ECL detection. <i>Recommended blocking buffer:</i> Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L. Included Positive Control: Cell lysate from untreated HeLa cells (See Protocols for more details).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to hemocyanin derived from Raptor Sequence.
Specificity:	Recognizes Raptor.
Formulation:	1ml PBS, containing 0.09% Sodium Azide/PEG and Sucrose. State: Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent Ultrafiltration and Size Exclusion Chromatography.
Conjugation:	Unconjugated
Storage:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Avoid repeated freeze / thaw cycles. Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months.
Gene Name:	regulatory associated protein of MTOR complex 1
Database Link:	Entrez Gene 74370 Mouse Entrez Gene 287871 Rat Entrez Gene 57521 Human Q8N122



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Background: The mTOR pathway (mammalian target of rapamycin) coordinates nutrient signals with growth factor dependent signaling. Recent data revealed that mTOR is organized in two independent protein complexes: The complex containing mTOR, GbL and RAPTOR is target of rapamycin while the complex containing mTOR, GbL and RICTOR is insensitive to rapamycin. The mTOR /RICTOR complex phosphorylates PKBalpha/akt1 at Serine 473

Synonyms: RPTOR, KIAA1303, Regulatory-associated protein of mTOR, P150 target of rapamycin TOR-scaffold protein

Note: **Mol. weight:** 145 kDa

Protocol: **Positive Control Provided: Cell lysate from untreated HeLa cells**

Description: Cell lysate from untreated HeLa cells, epitheloid cervical carcinoma (Human)

Format: Lyophilized cell lysate from serum starved HeLa 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.

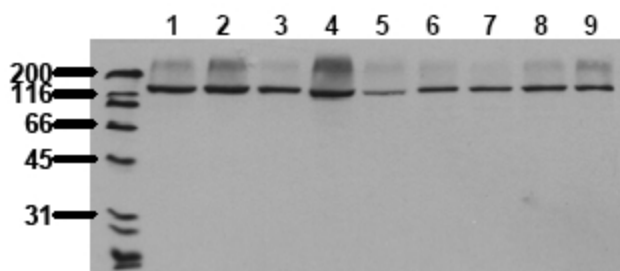
Storage: Aliquote and store frozen.
Avoid repeated freeze/thaw cycles.

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 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 immunoprecipitation.

Protein Pathways: Insulin signaling pathway, mTOR signaling pathway

Product images:



Detection of endogenous Raptor: Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with AM20221PU-N Raptor antibody (Clone 10E10) at 0.5 µg/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 Lane 9: 3T3