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Product datasheet for AM20218PU-N

MET (Activation Loop) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 14G9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	14G9
Applications:	WB
Recommended Dilution:	**Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection. *Recommended blocking buffer:* Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L. *Included Positive Control:* Cell lysate from untreated A431 cells (See Protocols for more details).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	peptide conjugated to hemocyanin **Epitope:** kinase activation loop.
Specificity:	This monoclonal MET antibody (14G9) recognizes Met activation loop.
Formulation:	1ml PBS, containing 0.09% Sodium Azide/PEG and Sucrose. State: Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with 1 ml H2O (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:	MET proto-oncogene, receptor tyrosine kinase
Database Link:	Entrez Gene 4233 Human P08581

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Background: MET is a high affinity receptor for Hepatocyte Growth Factor/Scatter Factor HGF/SF. The (HGF/SF)-(HGFR/MET) ligand-receptor system appears to have an important role in controlling interaction between mesenchymal cells and other cell types and has been implicated in the cell mitogenic response, cell motility and development. The interaction with HGF leads to autophosphorylation at multiple tyrosine residues and recruiting of several downstream signaling components (Gab1, c-cbl, PI3-kinase). The phosphorylation of Tyr 1234/1235 leads to kinase activation, and phospho-Tyr 1349 is the Gab1 binding site. Altered MET levels and/or tyrosine kinase activities have been found in different tumors, such as colon, renal, and breast cancer.

Synonyms: Hepatocyte growth factor receptor, MET, Scatter factor receptor, HGF/SF receptor, c-Met

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

Protocol: **Positive Control Provided.**
Cell lysate from untreated A431 cells

Description: Cell lysate from untreated A431 cells, epidermoid carcinoma (Human)

Format: Lyophilized cell lysate from serum starved A431 cells.

Reconstitution: Restore by addition of 200 µl H20. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

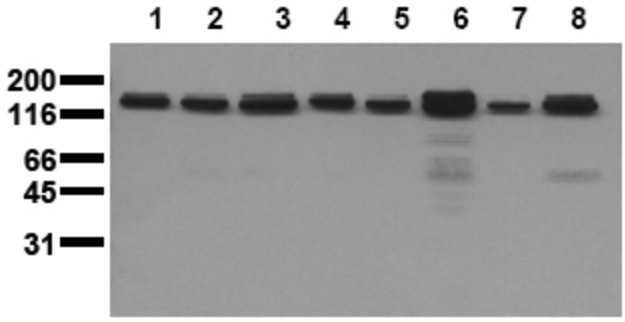
Storage: Aliquote and store frozen.
Avoid repeated freeze/thaw cycles.

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 Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Adherens junction, Axon guidance, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, Epithelial cell signaling in Helicobacter pylori infection, Focal adhesion, Melanoma, Pathways in cancer, Renal cell carcinoma

Product images:



Detection of endogenous MET: Whole cell extracts of EGF stimulated tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with MET antibody clone 14G9 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: A431 Lane 2: A549 Lane 3: SKOV3 Lane 4: OVCAR5 Lane 5: HaCaT Lane 6: PC3 Lane 7: HeLa Lane 8: HepG2