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Datasheet for 600-401-989S

c-Met phospho Y1349 / pY1356 Antibody

Overview

Description:	Anti-c-MET pY1349 pY1356 (RABBIT) Antibody - 600-401-989S
Item No.:	600-401-989S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Anti-c-MET is the receptor for hepatocyte growth factor (also known as scatter factor, HGF/SF), and belongs to the tyrosine kinase superfamily. Interaction of c-Met with HGF results in autophosphorylation of c-Met at multiple tyrosines. Phosphorylation of Y1234/1235 in the c-Met kinase domain is critical to kinase activation. When phosphorylated, Y1349 and Y1356, along with surrounding amino acids, form a unique bidentate docking site for substrates such as Gab1, Grb2, phosphatidylinositol 3-kinase (PI3K) and others. C-Met mainly uses the Gab1 scaffolding adaptor in its initial step of signal transmission. Well-characterized downstream signaling pathways that are activated by c-Met include the ERK/MAPK, PI3K–Akt/PKB, Crk–Rap and Rac–Pak pathways, resulting in proliferation and increased cell survival. Anti-Phospho cMET was developed with NCI and is ideal for Cancer Research.
Synonyms:	rabbit anti-c-Met pY1349/pY1356 Antibody, rabbit anti-c-Met dual phosphorylated Antibody, HGF receptor antibody, HGF/SF receptor antibody, HGFR antibody, MET antibody, Met proto oncogene tyrosine kinase antibody, SF receptor, Tyrosine-protein kinase Met, Scatter factor receptor, Proto-oncogene c-Met, Hepatocyte growth factor receptor
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MET

Reactivity:	Human
PTM Specificity:	Dual Modification
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phospho-peptide corresponding to residues surrounding Y1349 and Y1356 of human c-Met protein.
Purity/Specificity:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography using dual-phospho-peptide coupled to agarose beads followed by cross-adsorption against nonphospho-peptide. This antibody is specific for human c-Met protein phosphorylated at Y1349 and Y1356. A BLAST analysis was used to suggest cross-reactivity with c-Met from human, mouse and rat based on 100% homology with the immunizing sequence. Cross-reactivity with c-Met from other sources has not been determined.
Relevant Links:	• UniProtKB - P08581 • NCBI - 42741655 • GeneID - 4233

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 150 kDa in size corresponding to phosphorylated c-Met protein by western blotting in the appropriate cell lysate or extract. This phospho-specific polyclonal antibody reacts with human c-Met pY1349pY1356 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:93,000
WB:	1µg/mL

Formulation

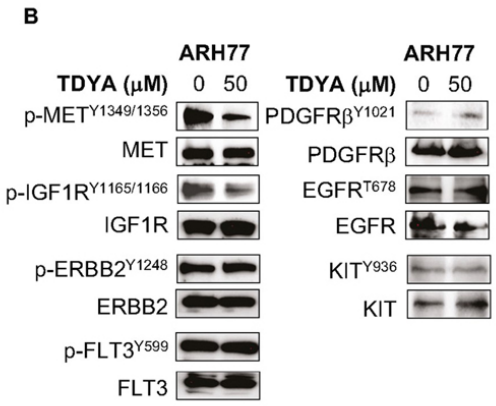
Physical State:	Liquid (sterile filtered)
Concentration:	1.01 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer:	None

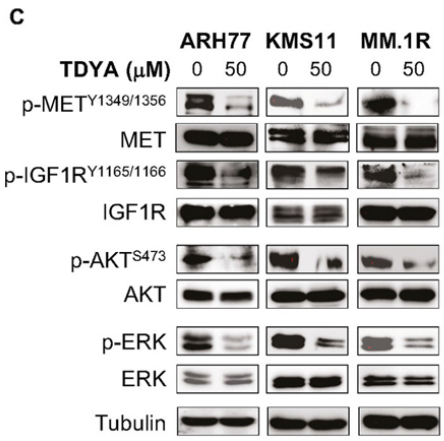
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is three (3) months from date of receipt.

Images

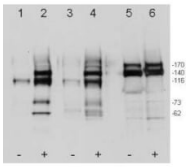


Western Blot
B) MM cells were treated or not with 50µM TDYA for 36 h and probed in immunoblotting with the indicated antibodies. Immunoblots demonstrate representative images of at least two independent experiments with no substantial experimental variability. Fig 5. PMID: 39885295



Western Blot
C) MM cells were treated or not with 50μM TDYA for 36 h and probed in immunoblotting with the indicated antibodies. Immunoblots demonstrate representative images of at least two independent experiments with no substantial experimental variability. Fig 5. PMID: 39885295

Western Blot
Western blot using Rockland's affinity purified anti-c-Met pY1349pY1356 antibody shows detection of phosphorylated c-Met. Human mammary B5/589 epithelial cells were serum-deprived and treated with or without HGF. Cell lysates were immunoprecipitated with the anti-c-Met antibody, resolved by SDS-PAGE, transferred to PVDF membrane, and probed with anti-c-Met pY1349pY1356. Personal communication, D. Bottaro and T. Ito, NCI, Bethesda, MD



Western Blot
Western blot using Rockland's affinity purified anti-c-Met pY1349pY1356 antibody shows detection of phosphorylated c-Met. Human mammary epithelial cells (B5/589) were serum deprived and stimulated with (+) and without (-) HGF. Cell lysates were immunoprecipitated using a human anti-c-Met antibody, resolved by SDS-PAGE, transferred to PVDF membrane and probed using various antibodies. Lane 1 and 2 where probed using the anti-c-Met pY1349pY1356 antibody (#600-401-989), lane 3 and 4 where probed using an anti-phosphotyrosine antibody as phosphorylation control and lane 5 and 6 where probed using an anti-cMet antibody as a total Met loading control. Bands recognized at an apparent molecular weight of ~170 kDa are total Met, ~145 kDa phosphorylated Met beta chain in HGF +, ~150 kDa phosphorylated Met in +/- HGF, ~50kDa phosphorylated Met alpha chain. Personal communication with D. Bottaro and F. Cecchi, CCR-NCI, Bethesda, MD.

References

- Han Z et al. Targeting ABCD1-ACOX1-MET/IGF1R axis suppresses multiple myeloma. *Leukemia.* (2025)

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