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Datasheet for 600-401-989

c-Met phospho Y1349 / pY1356 Antibody

Overview

Description:	Anti-c-MET pY1349 pY1356 (RABBIT) Antibody - 600-401-989
Item No.:	600-401-989
Size:	100 µg
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 peptide corresponding to residues surrounding Y1349 and Y1356 of human c-Met protein.
Purity/Specificity:	Phospho c-MET Antibody was produced from monospecific antiserum by immunoaffinity chromatography using dual-phospho-peptide coupled to agarose beads followed by cross-adsorption against nonphospho-peptide. 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:	• NCBI - 42741655 • UniProtKB - P08581 • GeneID - 4233

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blot. 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

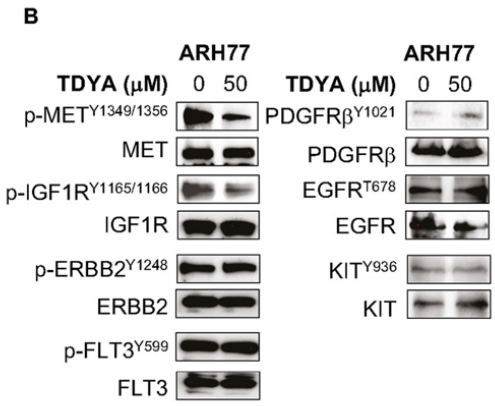
Physical State:	Liquid (sterile filtered)
Concentration:	0.96 mg/ml
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer:	None

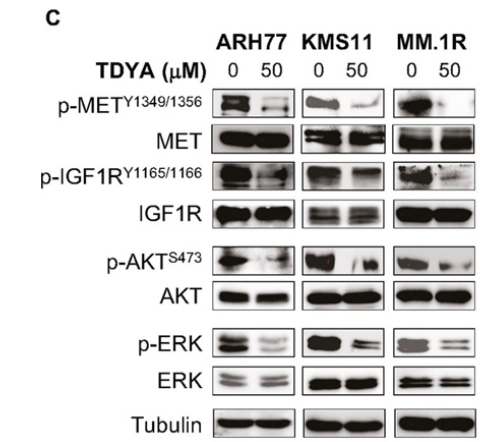
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store Phospho antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

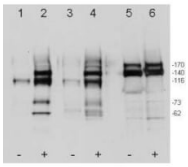


Western Blot
B) MM cells were treated or not with 50μM TDYA for 36 h and probed in immunoblotting with the indicated antibodies. Immunoblots demonstrate representative images of at least two independent experiments with no substantial experimental variability. Fig 5. PMID: 39885295



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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