abcam

Product datasheet

Recombinant human Met (c-Met) (mutated D1228N) protein ab185270

5 Images

Description

Product name	Recombinant human Met (c-Met) (mutated D1228N) protein
Biological activity	The specific activity of ab185270 was determined to be 350 nmol/min/mg.
Purity	> 95 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P08581
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	KKRKQIKDLGSELVRYDARVHTPHLDRLVSARSVSPTTEM VSNESVDYRA TFPEDQFPNSSQNGSCRQVQYPLTDMSPILTSGDSDISSP LLQNTVHIDL SALNPELVQAVQHVVIGPSSLIVHFNEVIGRGHFGCVYHGT LLDNDGKKI HCAVKSLNRITDIGEVSQFLTEGIIMKDFSHPNVLSLLGICLR SEGSPLV VLPYMKHGDLRNFIRNETHNPTVKDLIGFGLQVAKGMKYL ASKKFVHRDL AARNCMLDEKFTVKVADFGLARNMYDKEYYSVHNKTGAK LPVKWMALESL QTQKFTTKSDVWSFGVLLWELMTRGAPPYPDVNTFDITVY LLQGRRLLQP EYCPDPLYEVMLKCWHPKAEMRPSFSELVSRISAIFSTFIG EHYVHVNAT YVNVKCVAPYPSLLSSEDNADDEVDTRPASFWETS
Predicted molecular weight	81 kDa including tags
Amino acids	956 to 1390
Modifications	mutated D1228N
Tags	proprietary tag N-Terminus

Additional sequence information NM_000245.

Specifications

Our **Abpromise guarantee** covers the use of **ab185270** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Functional Studies

SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.50
Constituents: 0.79% Tris HCl, 0.88% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF, 25% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function Receptor for hepatocyte growth factor and scatter factor. Has a tyrosine-protein kinase activity. Functions in cell proliferation, scattering, morphogenesis and survival.

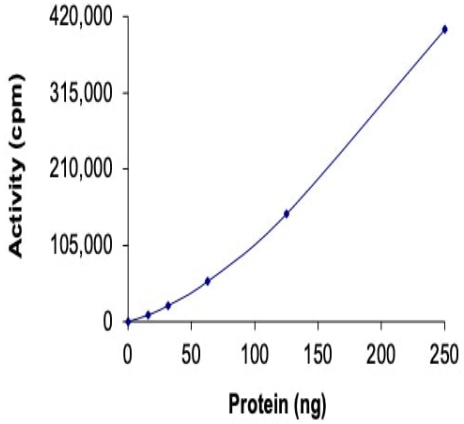
Involvement in disease Note=Activation of MET after rearrangement with the TPR gene produces an oncogenic protein.
Note=Defects in MET may be associated with gastric cancer.
Defects in MET are a cause of hepatocellular carcinoma (HCC) [MIM:114550].
Defects in MET are a cause of renal cell carcinoma papillary (RCCP) [MIM:605074]. It is a subtype of renal cell carcinoma tending to show a tubulo-papillary architecture formed by numerous, irregular, finger-like projections of connective tissue. Renal cell carcinoma is a heterogeneous group of sporadic or hereditary carcinoma derived from cells of the proximal renal tubular epithelium. It is subclassified into common renal cell carcinoma (clear cell, non-papillary carcinoma), papillary renal cell carcinoma, chromophobe renal cell carcinoma, collecting duct carcinoma with medullary carcinoma of the kidney, and unclassified renal cell carcinoma.
Note=A common allele in the promoter region of the MET shows genetic association with susceptibility to autism in some families. Functional assays indicate a decrease in MET promoter activity and altered binding of specific transcription factor complexes.
Note=MET activating mutations may be involved in the development of a highly malignant, metastatic syndrome known as cancer of unknown primary origin (CUP) or primary occult malignancy. Systemic neoplastic spread is generally a late event in cancer progression. However, in some instances, distant dissemination arises at a very early stage, so that metastases reach clinical relevance before primary lesions. Sometimes, the primary lesions cannot be identified in spite of the progresses in the diagnosis of malignancies.

Sequence similarities Belongs to the protein kinase superfamily. Tyr protein kinase family.
Contains 3 IPT/TIG domains.
Contains 1 protein kinase domain.
Contains 1 Sema domain.

Domain The kinase domain is involved in SPSB1 binding.

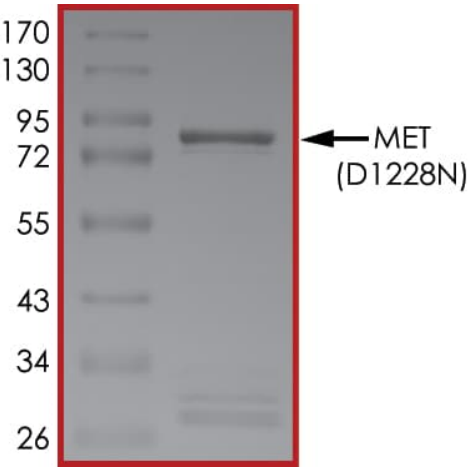
Post-translational modifications	Dephosphorylated by PTPRJ at Tyr-1349 and Tyr-1365.
Cellular localization	Membrane.

Images



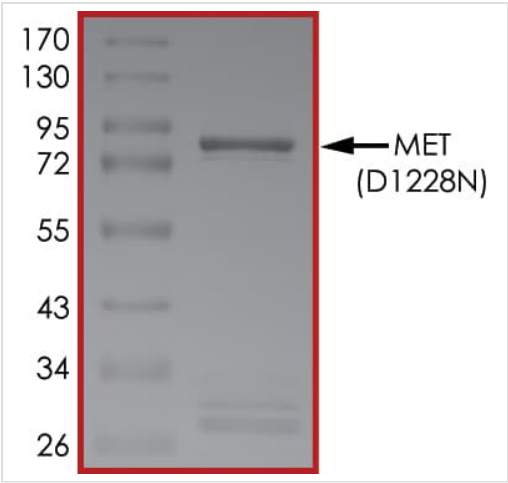
Functional Studies - Recombinant human Met (c-Met) (mutated D1228N) protein (ab185270)

The specific activity of Met (c-Met) (ab185270) was determined to be 320 nmol/min/mg as per activity assay protocol



SDS-PAGE - Recombinant human Met (c-Met) (mutated D1228N) protein (ab185270)

SDS PAGE analysis of ab185270



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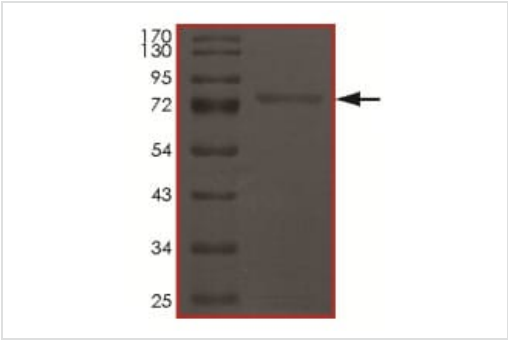
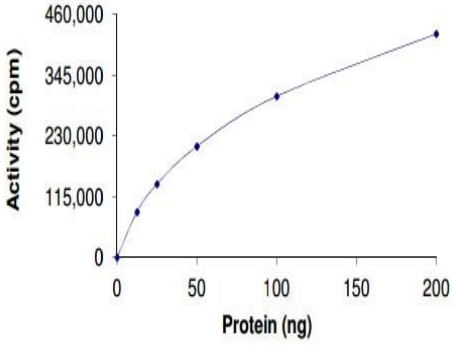
SDS PAGE analysis of ab185270



SDS-PAGE - Recombinant human Met (c-Met) (mutated D1228N) protein (ab185270)

SDS-PAGE analysis of ab185270.



Functional Studies - Recombinant human Met (c-Met) (mutated D1228N) protein (ab185270)

Kinase Assay showing the specific activity of ab185270 as 350 nmol/min/mg.

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