abcam

Product datasheet

Recombinant rat Met (c-Met) protein ab60334

4 Images

Description

Product name	Recombinant rat Met (c-Met) protein
Biological activity	Specific activity: 46 nmol/min/mg.
Purity	> 90 % SDS-PAGE. Purity: >90% as determined by densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P97523
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Rat
Predicted molecular weight	74 kDa
Amino acids	958 to 1382
Tags	GST tag N-Terminus
Additional sequence information	Recombinant fragment, corresponding to amino acids 958-end (cytoplasmic domain) of Rat Met (c-Met).

Specifications

Our **Abpromise guarantee** covers the use of **ab60334** 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
Additional notes	**ab204877** (Poly (4:1 Glu, Tyr) peptide) can be utilized as a substrate for assessing kinase activity

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292%

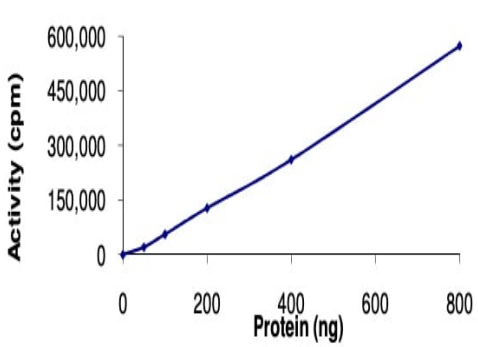
EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

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

General Info

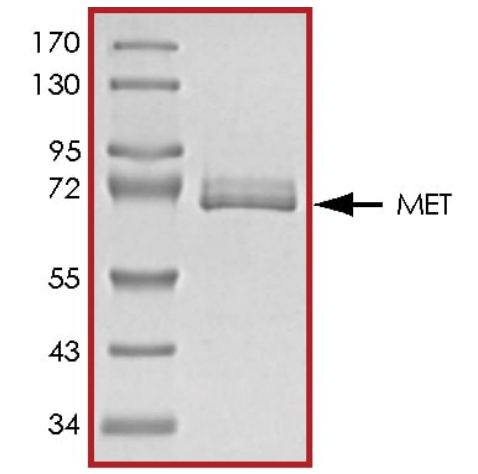
Function	Receptor for hepatocyte growth factor and scatter factor. Has a tyrosine-protein kinase activity. Functions in cell proliferation, scattering, morphogenesis and survival.
Involvement in disease	Note=Activation of MET after rearrangement with the TPR gene produces an oncogenic protein. Note=Defects 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



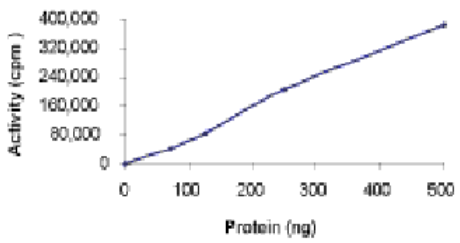
Functional Studies - Recombinant rat Met (c-Met) protein (ab60334)

The specific activity of Met (c-Met) (ab60334) was determined to be 46 nmol/min/mg as per activity assay protocol



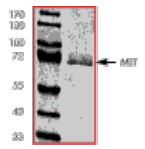
SDS-PAGE - Recombinant rat Met (c-Met) protein (ab60334)

SDS PAGE analysis of ab60334



Functional Studies - Recombinant rat Met (c-Met) protein (ab60334)

Sample Kinase Activity Plot.



SDS-PAGE - Recombinant rat Met (c-Met) protein (ab60334)

ab60334 on SDS-PAGE, MW ~74kDa.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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