## abcam

## Product datasheet

## Recombinant human Met (c-Met) (mutated M1250I) protein (Active) ab268773

| 2 Images |  |
| :--- | :--- |
| Description |  |
| Product name | Recombinant human Met (c-Met) (mutated M12501) protein (Active) |
| Biological activity | The specific activity of ab268773 was 46.3 nmol/min/mg in a peptide kinase assay using Poly(4:1 <br> Glu, Tyr) as substrate. |
| Purity | $>80$ \% SDS-PAGE. |
| Affinity purified. |  |
| Expression system | Baculovirus infected Sf9 cells |
| Accession | P08581 |
| Protein length | Protein fragment |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |
| Molecular weight information | Approx 80 kDa by SDS-PAGE |
| Amino acids | 956 to 1390 |
| Modifications | mutated M1250I |
| Tags | GST tag N-Terminus |
| Additional sequence information | Cytoplasmic domain. NM_000245 |

Specifications
Our Abpromise guarantee covers the use of ab268773 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 $-80^{\circ} \mathrm{C}$. Avoid freeze / thaw cycle.
pH: 7.50
Constituents: $0.79 \%$ Tris HCI, $0.87 \%$ 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. <br> Defects in MET are a cause of hepatocellular carcinoma (HCC) [MIM:114550]. <br> 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. <br> 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. <br> Contains 3 IPT/TIG domains. <br> Contains 1 protein kinase domain. <br> 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 - (ab268773)


The specific activity of ab268773 was $46.3 \mathrm{nmol} / \mathrm{min} / \mathrm{mg}$ in a peptide kinase assay using Poly(4:1 Glu, Tyr) as substrate.

SDS-PAGE analysis of ab268773.

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

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