abcam

Product datasheet

Mouse Met ELISA Kit (c-Met) ab275107

Reacts with: Mouse

Recombinant SimpleStep ELISA

4 Images

| Product name | Mouse Met ELISA Kit (c-Met) | | | | | | |
|------------------|-----------------------------|------------------|-------------|--------------|-------------|---------------------------------------|--|
| Detection method | Colorimetric | | | | | | |
| Precision | Intra-assay | | | | | | |
| | Sample | n | Mean | | SD | CV% | |
| | Serum | 8 | | | | 6.9% | |
| Sample type | Cell culture supernatan | t, Serum, Cell (| culture med | lia, Hep Pla | sma, EDTA F | Plasma, Cit plasma | |
| Assay type | Sandwich (quantitative) | | | | | | |
| Sensitivity | 10 pg/ml | | | | | | |
| Range | 54.69 pg/ml - 3500 pg/ml | | | | | | |
| Recovery | | | | | | Sample specific recover | |
| | Sample type | | | Average | % | Range | |
| | Cell culture supernata | ant | | 118 | | % - % | |
| | Serum | | | 110 | | % - % | |
| | Cell culture media | | 84 | | % - % | | |
| | Hep Plasma | | | 100 | | % - % | |
| | EDTA Plasma | | | 114 | | % - % | |
| | Cit plasma | | | 115 | | % - % | |
| Assay time | 1h 30m | | | | | · · · · · · · · · · · · · · · · · · · | |
| - | | | | | | | |

Species reactivity

Product overview

Mouse Met ELISA kit (ab275107) is a single-wash 90 min sandwich ELISA designed for the

| Notes | Met, also known as Hepatocyte Growth Factor Receptor (HGFR)o Met) is a receptor tyrosine kinase that transduces signals from the cytoplasm by binding to hepatocyte growth factor ligand. Met regu processes including proliferation, scattering, morphogenesis and cell surface induces autophosphorylation of Met on its intracellular sites for downstream signaling molecules. The recruitment of these leads to the activation of several signaling cascades including the PLC gamma-PKC. During embryonic development, Met signaling development and migration of muscles and neuronal precursors, a | e extracellular matrix into the lates many physiological survival. Ligand binding at the domain that provides docking e downstream effectors by Met RAS-ERK, PI3 kinase-AKT, or plays a role in gastrulation, |
|-------|--|---|
| Notes | Met, also known as hepatocyte Growth Factor Receptor (HGFR)0 | r Proto-Oncogene c-Met (c- |
| | A 384-well SimpleStep ELISA® microplate (<u>ab203359</u>) is availab 96-well microplate provided with SimpleStep ELISA® kits. | ble to use as an alternative to the |
| | -96-wells plate breakable into 12 x 8 wells strips | |
| | -Fully validated in biological samples | |
| | -High sensitivity, specificity and reproducibility from superior | antibodies |
| | -Single-wash protocol reduces assay time to 90 minutes or le | ss |
| | SimpleStep ELISA® technology employs capture antibodies conjure recognized by the monoclonal antibody used to coat our SimpleSt approach to sandwich ELISA allows the formation of the antibody- single step, significantly reducing assay time. See the SimpleStep the image section for further details. Our SimpleStep ELISA® tech benefits: | ep ELISA® plates. This analyte sandwich complex in a ELISA® protocol summary in |
| | quantitative measurement of Mouse Met protein in serum, plasma uses our proprietary SimpleStep ELISA® technology. Quantitate N sensitivity. | |

Antibody Diluent 4BR

10X Wash Buffer PT (ab206977)

2

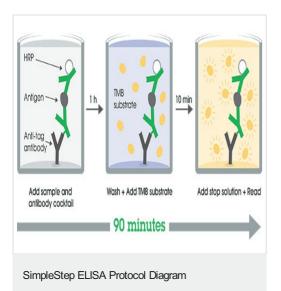
1 x 20ml

1 x 6ml

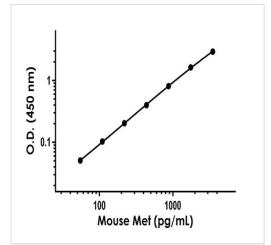
| Components | 1 x 96 tests |
|---|--------------|
| Mouse Met (c-Met) Lyophilized Recombinant Protein | 2 vials |
| Plate Seals | 1 unit |
| Sample Diluent NS (ab193972) | 2 x 50ml |
| SimpleStep Pre-Coated 96-Well Microplate (ab206978) | 1 unit |
| Stop Solution | 1 x 12ml |
| TMB Development Solution | 1 x 12ml |

| 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

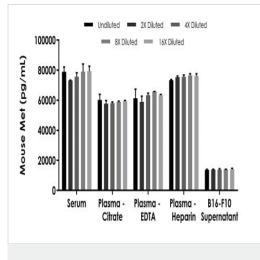


SimpleStep ELISA technology allows the formation of the antibodyantigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.

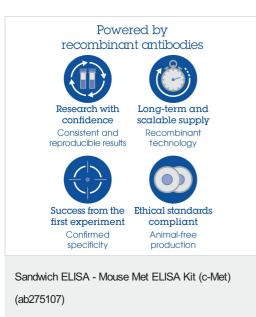


The Met standard curve was prepared as described in Section 10. Raw data values are shown in the table. Background-subtracted data values (mean +/- SD) are graphed.

Example of mouse Met standard curve in Sample Diluent NS.



Interpolated concentrations of native Met in mouse serum, plasma and B16-F10 cell culture supernatant samples.



The concentrations of Met were measured in duplicates, interpolated from the Met standard curves and corrected for sample dilution. Undiluted samples are as follows: serum 4%, plasma (citrate) 4%, plasma (EDTA) 4%, plasma (heparin) 4% and B16-F10 cell culture supernatant 20%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean Met concentration was determined to be 77,215 pg/mL in neat serum, 58,861 pg/mL in neat plasma (citrate), 62,541 pg/mL in neat plasma (EDTA), 75,355 pg/mL in neat plasma (heparin) and 13,898 pg/mL in neat B16-F10 supernatant.

To learn more about the advantages of recombinant antibodies see **here**.

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