## Overview

**Product name**: Anti-Met (c-Met) antibody [SP44] - C-terminal

**Description**: Rabbit monoclonal [SP44] to Met (c-Met) - C-terminal

**Host species**: Rabbit

**Tested applications**: Suitable for: IHC-P, Flow Cyt

**Species reactivity**: Reacts with: Human

**Immunogen**: Synthetic peptide within Human Met (c-Met) aa 1350 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P08581

**Positive control**: IHC-P: Human colon carcinoma tissue; FC: HT-29 and HepG2 cells.

**General notes**: This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

## Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
</tbody>
</table>
| Storage buffer             | pH: 7.6  
Preservative: 0.1% Sodium azide  
Constituents: PBS, 1% BSA |
| Purity                     | Protein A/G purified |
| Purification notes         | Purified from TCS by protein A/G. |
| Clonality                  | Monoclonal |
| Clone number               | SP44 |
| Isotype                    | IgG |

## Applications

Our Abpromise guarantee covers the use of ab227637 in the following tested applications.
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.

Application | Abreviews | Notes
--- | --- | ---
IHC-P | 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Primary antibody incubation for 30 minutes at room temperature. |  
Flow Cyt | 1/20 - 1/100. Primary antibody incubation for 30 minutes at 4°C. |  

Images
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue sections labeling Met (c-Met) with ab227637 at 1/50 dilution (4.52 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Flow Cytometry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling Met (c-Met) with purified ab227637 at 1/20 dilution (11.3 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) / Black. Unlabeled control - Unlabelled cells / blue.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Met (c-Met) antibody [SP44] - C-terminal (ab227637)

Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for Met (c-Met) using ab227637 at 1/50 dilution in immunohistochemical analysis.

Flow Cytometry - Anti-Met (c-Met) antibody [SP44] - C-terminal (ab227637)

Flow cytometric analysis of HT-29 (human colorectal adenocarcinoma cell line) cell line labeling Met (c-Met) with ab227637 at 1/100 dilution (green) compared with a negative control of rabbit IgG (blue).

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors