CELL APPLICATIONS, INC.

c-Met Antibody

Cat. No. CB2706

Applications:	**WB, IP**
Detected MW:	**145 kDa**
Species & Reactivity:	**Human, Mouse, Rat**
Isotype:	**Rabbit IgG**

BACKGROUND

The c-Met proto-oncogene, widely expressed in mammalian tissues, encodes a transmembrane receptor with tyrosine kinase activity. The c-Met receptor tyrosine kinase and its ligand HGF (hepatocyte growth factor), also known as scatter factor (SF), have been shown to be involved in angiogenesis, cellular motility, growth, invasion, and differentiation. The full receptor protein is a 190-kDa heterodimer made of a 50-kDa extracellular alpha-subunit linked by a disulfide bridge to a 145-kDa transmembraneous catalytic beta-subunit.[1] Multiple signaling pathways have been associated with the biological responses mediated by c-Met activation. In response to HGF, phosphorylated tyrosine residues of c-met act as a binding site for Src Homology (SH2) domain-containing intracellular proteins including Gab-1, Grb2 etc.[2], which led to downstream activation of Ras, Rac, phosphoinositide 3-kinase (PI3-kinase) and mitogen-activated protein kinase (MAPK).[2] It was demonstrated that c-Met signaling also contributes to oncogenesis and tumor progression in several human cancers and promotes aggressive cellular invasiveness that is strongly linked to tumor metastasis. Thus, c-Met is a potentially therapeutic target for cancer treatment.[3]

References:

1. Abounader, A et al: J. Neurochem. 76 : 1497, 2001.
2. Sachs, M. et al: J. Cell. Biol. 150:1375, 2000.
3. Perruzi, B. & Bottaro, D.: Clin. Can. Res. 12: 3657, 2006

TECHNICAL INFORMATION

Source: Anti-c-Met is a rabbit polyclonal antibody raised against *E. coli*-expressed cytoplasmic carboxyl domain of human c-Met proteins.

Specificity and Sensitivity: This antibody specifically detects endogenous levels of c-Met beta-subunits. The molecular weight of detected c-Met beta-subunit is 145 kDa. This antibody does not cross-react with other related proteins.

Storage Buffer: 0.1 M PBS (pH 7.2), 0.1% Glycine, 0.1% Sodium Azide, 0.1% BSA and 50% Glycerol.

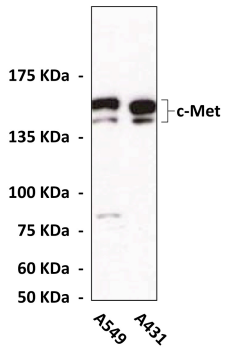
Storage: Store at -20°C, 4°C for frequent use. Avoid repeated freeze-thaw cycles.

APPLICATIONS

Application:	*Dilution:
WB	1:1000
IP	n/d
IHC	n/d
ICC	n/d
FACS	n/d

*****Optimal dilutions must be determined by end user.*

QUALITY CONTROL DATA



Specific detection of c-Met proteins from A549 and A431 cell lysates in Western blot using c-Met Rabbit Polyclonal Antibody.