CELL APPLICATIONS, INC.

Phospho c-Met (Tyr1234/1235) Polyclonal Antibody

Cat. No. CC1015

Applications:	**WB, IP, IHC**
Detected MW:	**140 kDa**
Species & Reactivity:	**human, mouse, rat**
Isotype:	**Rabbit IgG**

BACKGROUND

c-Met is a tyrosine kinase receptor for Hepatocyte Growth Factor, HGF. This molecule consists of a heterodimer of an extracellular alpha chain disulfide linked to a transmembrane beta chain. The cytoplasmic portion of the beta chain contains the catalytic domain and critical sites for the regulation of its kinase activity.[1] c-Met was demonstrated to play an important role in inducing cell migration, invasion, proliferation and survival, in response to its ligand. Upon activation, c-Met initiates several diverse intracellular signaling pathways, including: growth factor receptor-bound protein 2 (Grb2), mitogen-activated protein kinase (MAPK), phosphoinositol 3-kinase (PI3K), and phospholipase C-gamma (PLC-γ).[2] In many human cancers, c-Met is activated via receptor overexpression, amplification, mutation and/or a ligand-dependent autocrine/paracrine loop, as well as the formation of heterodimers with other receptor tyrosine kinases.[3] These biochemical and genetic abnormalities correlate with poor clinical outcomes and drug resistance in cancer patients. Targeting c-Met signaling pathway may have significant therapeutic potential.

References:
1. Christensen, J. G. et al: Cancer Lett., 225:1-26, 2005.
2. Liu, X. et al: Expert Opin Investig Drug 17:997-1011, 2008.
3. Abidoye, O. et al: Rev. Recet Clin. Trails, 2:143-7, 2007.

TECHNICAL INFORMATION

Source:
Affinity purified Anti-phospho-c-Met (Tyr1234/5) antibody is a rabbit polyclonal antibody raised against the epitope surrounding and including Tyr1234/5 of human c-Met sequence.

Specificity and Sensitivity:
This antibody detects endogenous phospho-human, mouse and rat c-Met proteins.

Storage Buffer: PBS and 30% glycerol

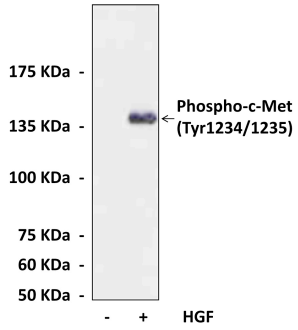
Storage:
Store at -20°C for at least one year. Store at 4°C for frequent use. Avoid repeated freeze-thaw cycles.

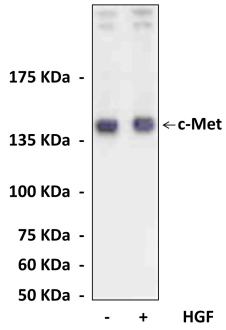
APPLICATIONS

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

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

QUALITY CONTROL DATA





A431 cells were stimulated with HGF and subjected to Western Blot analysis using anti-phospho-c-Met (Tyr1234/5) rabbit polyclonal antibody **(Top)**, or anti-c-Met **(bottom)**.