

[pTyr₁₂₃₀/Tyr₁₂₃₄/Tyr₁₂₃₅]c-Met, pAb

Product Specifications

Catalog Number:	KAP-TK010 (also known as ADI-KAP-TK010)
Host:	Rabbit
Species Reactivity:	Human and mouse
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	WB: 1:1,000 (ECL) IHC: Yes ICC: Yes ELISA: Yes
Predicted m.w:	~83kDa
Concentration:	See product label
Purification:	Affinity chromatography
Format:	PBS, pH 7.2, 50% glycerol and 1 mg/mL BSA, 0.05% sodium azide
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at -20°C
Immunogen:	Synthetic peptide corresponding to the region of c-met spanning tyrosine residues 1230, 1234 and 1235; sequence is identical in mouse and rat
Related Products:	
905-076	c-Met Polyclonal Antibody
905-696	Met/HGFR (phospho-Tyr 1234/1235 Monoclonal Antibody

Background:

Binding of scatter factor (SF)/hepatocyte growth factor (HGF) to the c-Met receptor tyrosine kinase (RTK) triggers receptor dimerization and phosphorylation on multiple residues within the juxtamembrane, catalytic core and cytoplasmic tail domains, thereby regulating receptor internalization, catalytic activity and multisubstrate docking. c-Met contains three tyrosines (Tyr-xx-x-Tyr-Tyr motif) within the activation loop of the catalytic domain. This is also seen with the insulin receptor, insulin-like growth factor receptor (IGF1) and nerve growth factor (NGF) receptors/Trks, for which phosphorylation of all three tyrosines is required for full activation. With c-Met (and the related family member, RON), phosphorylation of tyrosines 1234 and 1235 has been shown to be important in receptor activation. Activation of the c-Met receptor results in binding and/or phosphorylation of many intracellular signaling proteins including multiple adaptor proteins (e.g., Grb2, Shc, Cbl, Crk, cortactin, paxillin, and GAB1), and a variety of other signal transducers (e.g., PI 3-kinase, FAK, Src, Erk1&2, JNK, PLC- γ , and STAT3).

References:

1. Fan, S., *et al.* (2001) *Mol Cell Biol.* **21**(15), 4968-4984.
2. Crostella, L., *et al.* (2001) *Oncogene* **20**(28), 3735-3745.
3. Parr, C., *et al.* (2001) *Biochem Biophys Res Commun.* **285**(5), 1330-1337.
4. Furge, K.A., *et al.* (2000) *Oncogene* **19**(49), 5582-5589.
5. Follenzi, A., *et al.* (2000) *Oncogene* **19**(27), 3041-3049.
6. Wei, L., *et al.* (1995) *J Biol Chem.* **270**(14), 8122-8130.
7. Guiton, M., *et al.* (1994) *J Biol Chem.* **269**(48), 30370-30377.

FOR RESEARCH USE ONLY; NOT FOR THERAPEUTIC OR DIAGNOSTIC USE

5777 Hines Drive • Ann Arbor, MI • 48108 | Tel: 800-833-8651 or 800-668-6113 | Fax: 734-668-2793
www.assaydesigns.com | orders@assaydesigns.com | technical@assaydesigns.com

Last Revised: 02/22/2010