

product **AS10 705**
Phosphotyrosine

product information

background	Tyrosine phosphorylation is considered to be one of the key steps in signal transduction and regulation of enzymatic activity. Phosphotyrosine antibodies are helpful in facilitating the identification of tyrosine kinase substrates.
immunogen	Phosphotyrosine, alanine and glycine in a 1:1:1 ratio polymerized in the presence of keyhole limpet hemocyanin KLH with 1-ethyl-3-(3'-dimethylaminopropyl) carbodiimide
antibody format	mouse monoclonal IgG1 (clone G104) liquid
quantity	100 µg
storage	store at -20°C for one year; make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	western blot (WB), immunoprecipitation (IP), immunofluorescence (IF), immunohistochemistry (IHC)
additional information	protein G purified IgG1 in PBS, pH 7.4 with 0.09 % sodium azide and 50 % glycerol at concentration 1 mg/ml

application information

recommended dilution	1 : 1000 with standard ECL (WB)
expected apparent MW	does not apply
confirmed reactivity	antibody reacts with phosphotyrosine and detects the presence of phosphotyrosine in proteins of both unstimulated and stimulated cell lysates. Does not cross react with phosphoserine or phosphothreonine.
predicted reactivity	antibody is not species specific
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	1 µg/ml of this antibody is sufficient for detection of phosphorylated tyrosine residues in 10 µg of rat tissue lysate by colorimetric immunoblot analysis.
selected references	(WB): Garton et al. (1996). Identification of p130(cas) as a substrate for the cytosolic protein tyrosine phosphatase PTP-PEST. Mol and Cell Bio 11:6408-6418.

(IP): [Tiganis](#) et al. (1999). The protein-tyrosine phosphatase TCPTP regulates epidermal growth factor receptor-mediated and phosphatidylinositol 3-kinase-dependent signaling. J Biol Chem 39: 27768-27775.

(IF): [Garton & Tonks](#) (1999). Regulation of fibroblast motility by the protein tyrosine phosphatase PTP-PEST. J Biol Chem 6:3811-3818.