

DESCRIPTION

Species Reactivity	Human
Specificity	The antibody detects endogenous human MSP R/Ron phosphorylated at Y1238/Y1239 using Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen and protein A Affinity-purified
Immunogen	Phosphopeptide containing human MSP R/Ron Y1238/Y1239 sites
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot

Detection of Human Phospho-MSP R/Ron (Y1238/Y1239) by Western Blot. Western blot shows lysates of MDA-MB-453 human breast cancer cell line untreated (-) or treated (+) with 100 µM pervanadate (PV) for 10 minutes. The membranes were untreated or treated with calf intestinal phosphatase (CIP). PVDF membrane was probed with 1 µg/mL of Human Phospho-MSP R/Ron (Y1238/Y1239) Antigen Affinity-purified Polyclonal Antibody, followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-MSP R/Ron (Y1238/Y1239) at approximately 170 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot

Detection of Human Phospho-MSP R/Ron (Y1238/Y1239) by Western blot. Human Phospho-MSP R/Ron (Y1238/Y1239) was immunoprecipitated from 1 mg of lysates of MDA-MB-453 human breast cancer cell line untreated (-) or treated (+) with 100 µM Pervanadate (PV) for 10 minutes or 100 ng/mL Recombinant Human MSP/MST1 Protein (Catalog # 352-MS) for 10 minutes. MSP R/Ron (Y1238/Y1239) was immunoprecipitated with 1 µg Goat Anti-Human MSP R/Ron Antigen Affinity-purified Polyclonal Antibody (Catalog # AF691). The MSP R/Ron (Y1238/Y1239)-antibody complexes were absorbed using Protein G Sepharose. Immunoprecipitated MSP R/Ron (Y1238/Y1239) was detected by Western blot using 0.1 µg/mL of Rabbit Anti-Human Phospho-MSP R/Ron (Y1238/Y1239) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1947).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Macrophage stimulating protein receptor (MSP R), also known as Ron, is one of a small family of receptor tyrosine kinases (RTKs) that also includes human Met and chicken Sea. Each family member is synthesized as a single-chain precursor that is cleaved into a mature disulfide-linked heterodimer composed of an extracellular α chain and a membrane-spanning β chain with intrinsic tyrosine kinase activity. MSP R/Ron is overexpressed in a number of primary breast carcinomas and non-small cell lung carcinomas, suggesting a role for this RTK in mammary and lung tumor progression. Phosphorylation of MSP R/Ron at Y1238/Y1239 in the activation loop of the kinase domain is responsible for kinase activity.