

Anti-ERK2 Antibody [PCRP-MAPK1-1D1] (A277765)

Specifications:

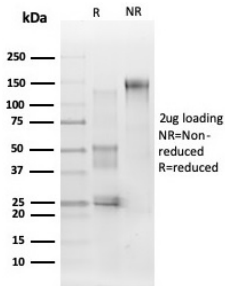
Name:	Anti-ERK2 Antibody [PCRP-MAPK1-1D1]
Description:	Mouse monoclonal [PCRP-MAPK1-1D1] antibody to ERK2.
Specificity:	Mitogen-activated protein kinase (MAPK) signaling pathways involve two closely-related MAP kinases, known as extracellular-signal-related kinase 1 (ERK 1, p44) and 2 (ERK 2, p42). Growth factors, steroid hormones, G protein coupled receptor ligands and neurotransmitters can initiate MAPK signaling pathways. Activation of ERK 1 and ERK 2 requires phosphorylation by upstream kinases such as MAP kinase (MEK), MEK kinase and Raf-1. ERK 1 and ERK 2 phosphorylation can occur at specific tyrosine and threonine sites mapping within consensus motifs that include the threonine-glutamate-tyrosine motif. ERK activation leads to dimerization with other ERKs and subsequent localization to the nucleus. Active ERK dimers phosphorylate serine and threonine residues on nuclear proteins and influence a host of responses that include proliferation, differentiation, transcription regulation and development.
Applications:	ELISA, IP, Flow Cytometry, IF
Recommended Dilutions:	IP: 1-2µg / 100-500µg proteins, Flow Cytometry: 0.5-2 µg/million cells, IF: 0.5-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant full-length human MAPK1 protein.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	PCRP-MAPK1-1D1
Isotype:	IgG2b
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-ERK2 Antibody [PCRP-MAPK1-1D1] - BSA and Azide free (A278353).

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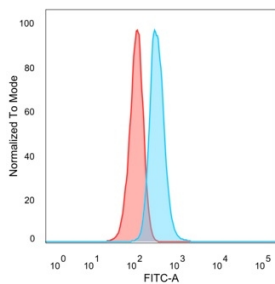
Specifications continued:

Disclaimer: This product is for research use only. It is not intended for diagnostic or therapeutic use.

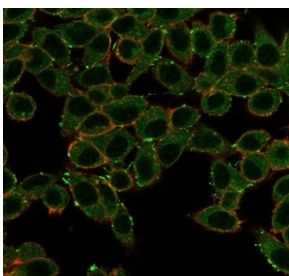
Images:



SDS-PAGE analysis of Anti-ERK2 Antibody [PCRP-MAPK1-1D1] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.



Flow cytometric analysis of PFA-fixed HeLa cells using Anti-ERK2 Antibody [PCRP-MAPK1-1D1] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Unstained cells (Red).



Immunofluorescent analysis of PFA-fixed HeLa cells stained with Anti-ERK2 Antibody [PCRP-MAPK1-1D1] followed by Goat Anti-Mouse IgG (CF® 488) (Green). Membrane stained with Phalloidin.

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Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-ERK2 Antibody [PCR-P-MAPK1-1D1]. Z-Score and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target; a MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.