

AB-PK587

CSF1R-pY699 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase CSF1R (Fms)



KINEXUS

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Target Protein

Name Long:	Macrophage colony-stimulating factor 1 receptor
Alias:	CD115; C-fms; Colony stimulating factor 1 receptor; CSF-1-R; CSFMR; FMS; Fms proto-oncogene; Kinase CSFR; Macrophage colony stimulating factor I receptor precursor; M-CSFR; FIM2; FIM2; CCDS4302.1; A2VDG3; Q6LEI2; ENSG00000182578
UniProt ID:	P07333
Sequence Predicted Mass (KDa):	107.984 (972 AA; P07333); 33.248 (306 AA; P07333-2)
Observed SDS-PAGE Mass (KDa):	120-130

Immunogen

Antibody Immunogen Source:	Human CSF1R (Fms) sequence peptide Cat. No.: PE-04AKD95
Antibody Immunogen Sequence:	GVD(pY)KNI(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues G696 to I702; In the kinase catalytic domain. This is the major in vivo phosphorylation site in CSF1R.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-699

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	0.5 mg/ml
Lot Number:	141024
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots. Medium-strong immunoreactivity with recombinant human CDF1R on protein dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Weak immunoreactivity of a target-sized protein by Western blotting in A431 and Jurkat cells.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	Medium immunoreactivity on protein dot blots with recombinant human Ftt3 and Kit. No significant cross-reactive proteins detected in Jurkat and HeLa cells. Strongly cross-reactive 45 and 50 KDa proteins were detected in A431 cells, and a 75 KDa cross-reactive protein was evident in sea star oocytes.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)