

Datasheet for ABIN683788

anti-CSF1R antibody (pTyr723)[Go to Product page](#)**1** Validation**1** Image**1** Publication

Overview

Quantity:	100 µL
Target:	CSF1R
Binding Specificity:	pTyr723
Reactivity:	Human, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CSF1R antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human CSF1R around the phosphorylation site of tyrosine 723
Isotype:	IgG
Cross-Reactivity:	Dog, Human
Predicted Reactivity:	Mouse,Rat,Cow,Horse
Purification:	Purified by Protein A.

Target Details

Target:	CSF1R
Alternative Name:	CSF1R (CSF1R Products)
Background:	<p>Synonyms: FMS, CSFR, FIM2, HDLS, C-FMS, CD115, CSF-1R, M-CSF-R, Macrophage colony-stimulating factor 1 receptor, CSF-1 receptor, CSF-1-R, Proto-oncogene c-Fms, CSF1R</p> <p>Background: This protein tyrosine kinase transmembrane receptor is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a member of the CSF1/PDGF receptor family of tyrosine protein kinases and contains 5 immunoglobulin like C2 type domains. CD115 is expressed by cells of the monocytic lineage and by progenitor cells. Mutations in this gene have been associated with a predisposition to myeloid malignancy.</p>
Gene ID:	1436
UniProt:	P07333
Pathways:	RTK Signaling , Inositol Metabolic Process , Cell-Cell Junction Organization

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

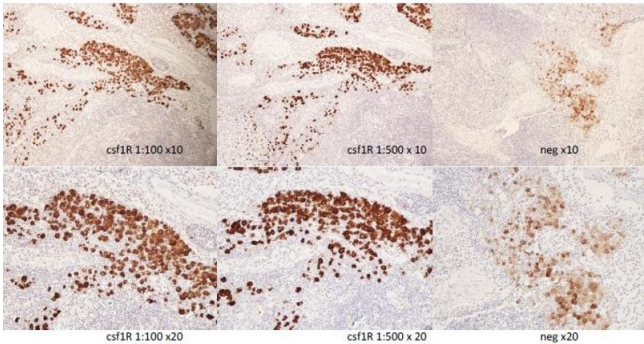
Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Król, Majchrzak, Mucha, Homa, Bulkowska, Jakubowska, Karwicka, Paw?owski, Motyl: "CSF-1R as an inhibitor of apoptosis and promoter of proliferation, migration and invasion of canine mammary cancer cells." in: BMC veterinary research , Vol. 9, pp. 65, (2013) (PubMed).
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Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Staining of canine lymph node tissue with bs-3077r. The primary antibody bs-3077r was used at a 100 fold (A and B) and 500 fold (C and D) dilution. A no primary antibody negative control (E and F) was used to verify the specificity of the stain. The blocking step with avidin and biotin was omitted for the no primary antibody negative controls. As a result, there is some unspecific staining in these sections. Images in the upper row (A, C, and E) were captured at 10x magnification, while the images below (B, D, and F) were taken at 20x magnification. Image was kindly submitted by a researcher via the Antibodies Online Independent Validation Program.



Successfully validated (Immunohistochemistry (IHC))

by [Sveriges Lantbruksuniversitet](#)

Report Number: 100091

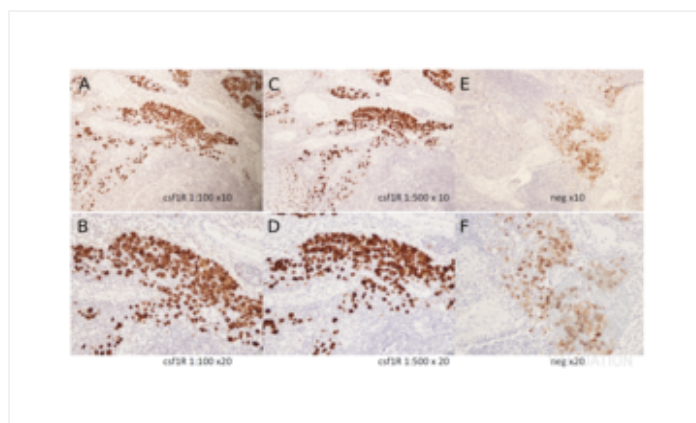
Date: Nov 24 2016

Target:	CSF1R (Colony Stimulating Factor 1 Receptor)
Lot Number:	9I02V3
Method validated:	Immunohistochemistry (IHC)
Positive Control:	canine lymph node tissue
Negative Control:	secondary antibody only
Notes:	The CSF1R antibody ABIN683788 specifically labels the targeted antigen in canine lymph node samples in IHC.
Primary Antibody:	ABIN683788
Secondary Antibody:	anti-rabbit (Vector, Vectastain ABC-Elite kit, PK 6101, lot 300712)
Protocol:	<ul style="list-style-type: none"> Canine lymph node tissue is dissected and fixed in 4% buffered formalin ON at RT. Deparaffinization and rehydration through graded xylene and graded alcohol series: <ul style="list-style-type: none"> xylene twice for 3min. 100% ethanol for 1min. 95% ethanol for 1min. 70% ethanol for 1min. 50% ethanol for 1min. H₂O for 2min. Boil the sections in the decloaking chamber (Biocare Medical): <ul style="list-style-type: none"> fill the outer chamber with 500ml distilled water. fill a plastic jar with diluted Antigen unmasking solution (Vector, H3301) diluted 1:100. Boil sections for 8 minutes, turn it off and leave for 1h. Rinse sections with distilled water 3 times. Rinse sections with 0.05M Tris-HCl pH7.6, 3 times. Block sections in normal goat serum (Vector, Vectastain ABC-Elite kit, PK 6101, lot 300712) diluted 1:50 for 1h at RT. Blot excess serum from sections; do not rinse. Incubate sections with primary antibody rabbit-anti CSF1R antibody (antibodies-online, ABIN683788, lot 9I02V3) diluted 1:100-1:500 in with 0.05M Tris-HCl, pH7.6 ON at 4°C. Include no primary antibody negative controls. Rinse sections with 0.05M Tris-HCl pH7.6, 3 times. Keep negative controls in a separate jar.

- Incubate sections with biotinylated secondary antibody anti-rabbit (Vector, Vectastain ABC-Elite kit, PK 6101, lot 300712) diluted 1:200 for 30min at RT.
- Mix 20µl of reagent A and reagent B of the Vectastain Elite ABC HRP kit (Vectorlabs, PK-6101, lot 300712) in 1ml 0.05M TrisHCl pH7.6 and leave the mixture for 30min at RT.
- Rinse sections with 0.05M Tris-HCl pH7.6, 3 times.
- Incubate sections in the ABC reagent mix for 45min at RT.
- Rinse sections with 0.05M Tris-HCl pH7.6 3 times.
- DAB staining using peroxidase substrate kit (Vector, product SK-4100, lot 020612):
 - Mix thoroughly 2.5ml and 1 drop buffer stock.
 - Add 2 drops DAB and mix thoroughly.
 - Add 1 drop H₂O₂ and mix thoroughly.
- Rinse sections with 0.05M Tris-HCl pH7.6 3 times.
- Stain sections with Mayer HTX (Histolab, 01820, lot 00811.) for 2-3min at RT.
- Rinse sections in tap water for 5-10min.
- Dehydrate in fresh ethanol:
 - 95% ethanol twice for 2min.
 - 99.5% ethanol twice for 2min.
 - xylene twice for 2min.
- Mount sections in Pertex mounting medium (Histolab, 00811).
- Dry sections in a ventilated place.
- Image acquisition (x10 and x20 objectives).

Experimental Notes: The blocking step with avidin and biotin was omitted for the no primary antibody negative controls. As a result, there is some unspecific staining in these sections. ABIN683788 worked nicely on the canine lymph node that was used as a positive control.

Image for Validation report #100091



Validation image no. 1 for anti-Colony Stimulating Factor 1 Receptor (CSF1R) (pTyr723) antibody (ABIN683788)

Staining of canine lymph node tissue with ABIN683788. The primary antibody ABIN683788 was used at a 100 fold (A and B) and 500 fold (C and D) dilution. A negative control without primary antibody (E and F) was used to verify the specificity of the stain. Please refer to the protocol for detailed information. Images in the upper row (A, C, and E) were captured at 10x magnification, while the images below (B, D, and F) were taken at 20x magnification.