

ARG52907
anti-CSF1R antibody [SP211]

Package: 100 µl

Store at: -20°C

Summary

Product Description	Rabbit Monoclonal antibody [SP211] recognizes CSF1R
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SP211
Isotype	IgG
Target Name	CSF1R
Species	Human
Immunogen	Synthetic peptide from human CSF-1R protein.
Conjugation	Un-conjugated
Alternate Names	CSF-1 receptor; CSF-1-R; FIM2; Macrophage colony-stimulating factor 1 receptor; Proto-oncogene c-Fms; CD115; CD antigen CD115; M-CSF-R; FMS; CSFR; C-FMS; EC 2.7.10.1; CSF-1R; HDLS

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Tonsil	

Properties

Form	Liquid
Purification	Purified by protein A/G
Buffer	PBS (pH 7.6), 1% BSA and < 0.1% Sodium azide
Preservative	< 0.1% Sodium azide
Stabilizer	1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 1436 Human](#)

[Swiss-port # P07333 Human](#)

Background

Colony stimulating factor 1 receptor (CSF1R), also known as macrophage colony-stimulating factor receptor and CD115, is a cell-surface tyrosine-protein kinase receptor for colony stimulating factor 1 (CSF1) and IL-34. It is expressed by monocytes and its progenitor or derived cells. It plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes. It is up-regulated in some human tumors such as carcinoma of ovary and breast.

Research Area

Cell Biology and Cellular Response antibody; Immune System antibody; Signaling Transduction antibody

Calculated Mw

108 kDa

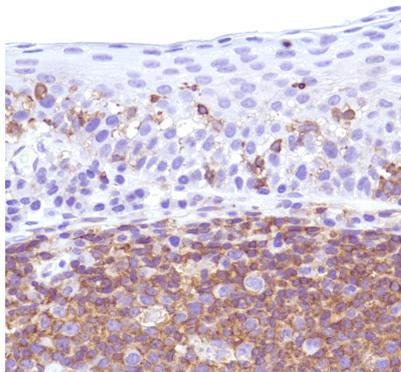
PTM

Autophosphorylated in response to CSF1 or IL34 binding. Phosphorylation at Tyr-561 is important for normal down-regulation of signaling by ubiquitination, internalization and degradation. Phosphorylation at Tyr-561 and Tyr-809 is important for interaction with SRC family members, including FYN, YES1 and SRC, and for subsequent activation of these protein kinases. Phosphorylation at Tyr-699 and Tyr-923 is important for interaction with GRB2. Phosphorylation at Tyr-723 is important for interaction with PIK3R1. Phosphorylation at Tyr-708 is important for normal receptor degradation. Phosphorylation at Tyr-723 and Tyr-809 is important for interaction with PLCG2. Phosphorylation at Tyr-969 is important for interaction with CBL. Dephosphorylation by PTPN2 negatively regulates downstream signaling and macrophage differentiation. Ubiquitinated. Becomes rapidly polyubiquitinated after autophosphorylation, leading to its degradation.

Cellular Localization

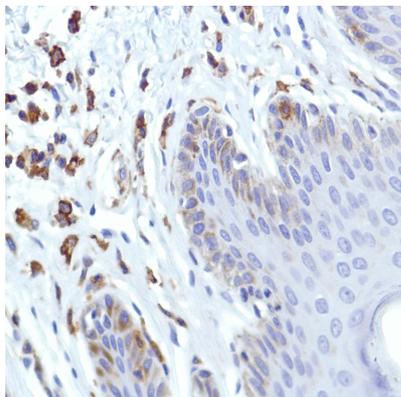
Cytoplasm, Membrane, Nucleus (cleaved form)

Images



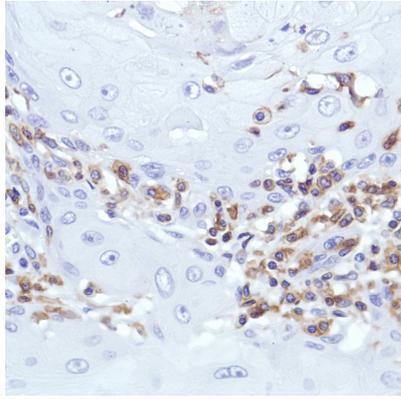
ARG52907 anti-CSF1R antibody [SP211] IHC-P image

Immunohistochemistry: Human Tonsil stained with ARG52907 anti-CSF1R antibody [SP211].



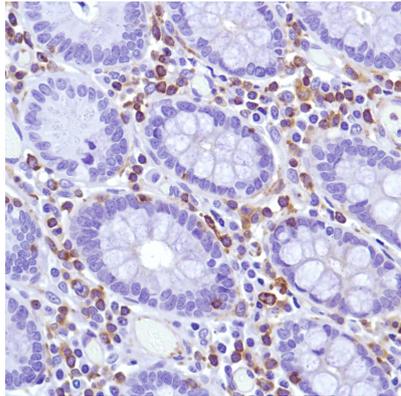
ARG52907 anti-CSF1R antibody [SP211] IHC-P image

Immunohistochemistry: Human Skin stained with ARG52907 anti-CSF1R antibody [SP211].



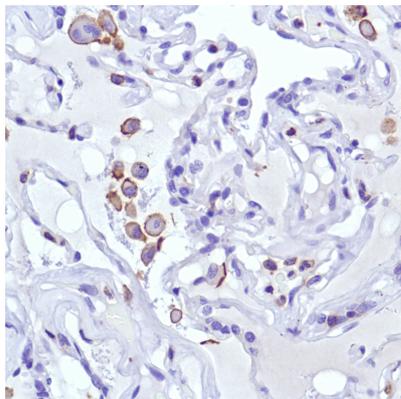
ARG52907 anti-CSF1R antibody [SP211] IHC-P image

Immunohistochemistry: Human Skin Squamous Cell Carcinoma stained with ARG52907 anti-CSF1R antibody [SP211].



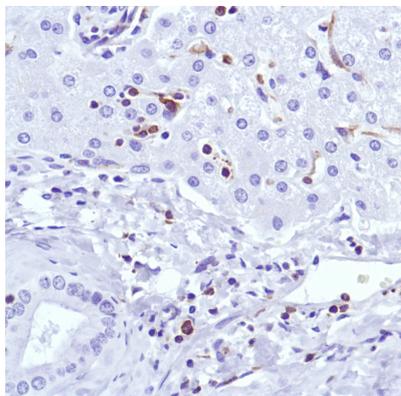
ARG52907 anti-CSF1R antibody [SP211] IHC-P image

Immunohistochemistry: Human Colon stained with ARG52907 anti-CSF1R antibody [SP211].



ARG52907 anti-CSF1R antibody [SP211] IHC-P image

Immunohistochemistry: Human lung stained with ARG52907 anti-CSF1R antibody [SP211].



ARG52907 anti-CSF1R antibody [SP211] IHC-P image

Immunohistochemistry: Human liver stained with ARG52907 anti-CSF1R antibody [SP211].
