

CSF1R Monoclonal Antibody (2-4A5-4)

Catalog NumberMA5-14627

Product data sheet

| Details | |
|--------------------|--|
| Size | 500 µL |
| Host/Isotope | Rat / IgG1, kappa |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 2-4A5-4 |
| Immunogen | A v-ras-transformed rat NRK cells expressing transduced human CSF-1R |
| Conjugate | Unconjugated |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Storage Conditions | 4° C |

| Species Reactivity | |
|---|-------------------------------|
| Species reactivity | Human |
| Tested Applications | |
| Immunohistochemistry (Frozen) (IHC (F)) | Dilution * Assay-dependent |

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

MA5-14627 targets CD115 in IF and IHC (F) applications and shows reactivity with Human samples. The MA5-14627 immunogen is a v-ras-transformed rat NRK cells expressing transduced human CSF-1R.

Background/Target Information

CSF1R (colony stimulating factor 1 receptor) is a cytokine that controls the production, differentiation, and function of macrophages. CSF1R mediates most if not all of the biological effects of CSF1. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. CSF1R is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in the gene encoding CSF1R have been associated with a predisposition to myeloid malignancy. Tyrosine-protein kinase that acts as cell-surface receptor for CSF1 and IL34 and plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines in response to IL34 and CSF1, and plays an important role in innate immunity and in inflammatory processes. The first intron of the CSF1R gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. Mutations in the CSF1R gene have been associated with a predisposition to myeloid malignancy.

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