

Polyclonal Anti-CXCR2 Antibody

Catalog Number: PA1029

Description

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|---------------------------------|--|
| Gene Name | chemokine (C-X-C motif) receptor 2 |
| Recommended Protein Name | C-X-C chemokine receptor type 2 |
| Lot No. | 01410120729126 |
| Size | 100µg/vial |
| Form | lyophilized |
| Ig type | Rabbit IgG |
| Specificity | No cross reactivity with other proteins. |
| Purification | Immunogen affinity purified. |
| Species | Reacts with: human, mouse, rat |
| Immunogen | A synthetic peptide corresponding to a sequence in the middle region of human CXCR2(196-212aa CYEDMGNNNTANWRMLLR), different from the related mouse sequence by six amino acids. |
| Contents | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . |

Application

| | Concentration | Tested Species | Predicted Species | Antigen Retrieval |
|--------------|---------------|----------------|-------------------|-------------------|
| Western blot | 0.1-0.5µg/ml | Hu, Ms, Rat | - | - |

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

Background

CXCR2 is a receptor for Interleukin 8, which is a powerful neutrophil chemotactic factor. It is a member of the GPCR family (subfamily, chemokine). Binding of IL8 to the receptor causes activation of neutrophils. This response is mediated via a G-protein that activate a phosphatidylinositol-calcium second messenger system. This receptor binds to IL8 with a high affinity and to GRO/MGSA and NAP2 also with a high affinity. It has been reported to be expressed in a wide variety of tissues. ESTs have been isolated from human placenta and thymus libraries.

Reference

1. Murphy P.M., Tiffany H.L.; "Cloning of complementary DNA encoding a functional human interleukin-8 receptor."; Science 253:1280-1283(1991).
2. Cerretti D.P., Kozlosky C.J., Vanden Bos T., Nelson N., Gearing D.P., Beckmann M.P.; "Molecular characterization of receptors for human interleukin-8, GRO/melanoma growth-stimulatory activity and neutrophil activating peptide-2."; Mol. Immunol. 30:359-367(1993).
3. Sprenger H., Lloyd A.R., Lautens L.L., Bonner T.I., Kelvin D.J.; "Structure, genomic organization, and expression of the human interleukin-8 receptor B gene."; J. Biol. Chem. 269:11065-11072(1994).