



Qty: 100 µg/200 µl

Mouse anti-CXCR4

Catalog No. 35-8800

Lot No.

Mouse anti-CXCR4

FORM

This monoclonal antibody is supplied as a 200 µl aliquot at a concentration of 0.5 mg/ml in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: 12G5

ISOTYPE: Mouse IgG_{2a}

IMMUNOGEN

CP-MAC infected Human Sup-T1 cells.⁽²⁾

SPECIFICITY

This antibody reacts with human CXCR4 protein.

REACTIVITY

Reactivity is confirmed with human lymphoid cell lines as well as human liver and brain tissues.

Sample	Immuno-Histochemistry (FFPE)	Immuno-fluorescence	Immuno-Histochemistry (Frozen)	Flow Cytometry	Western Blotting	Immuno-Precipitation (denatured)
Human	++	+++	++	+++	0	0
Mouse	ND	ND	ND	0	0	0
Rat	ND	ND	ND	0	0	0

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunohistochemistry: 10 µg/ml
Immunofluorescence*: 10 µg/ml
Flow cytometry: 2-5 µg/ml

**Note: For immunofluorescence applications, do not use cells fixed in acetone or methanol. 3% paraformaldehyde has been shown to give optimal results.⁽²⁾*

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI358800

(Rev 10/08) DCC-08-1089

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BACKGROUND

Viral entry into target cells is mediated through a complex interaction between the viral envelope protein and specific cellular receptors. The CD4 glycoprotein is the primary receptor for human HIV types 1 and 2. However, one or more cellular co-receptors are also needed for viral entry. CXCR4 has been identified as a co-receptor for HIV type 1. T lymphocytes and macrophages in both lymphoid and non-lymphoid tissues are the major cell populations expressing CXCR4.

CXCR4, also known as Chemokine (C-X-C motif) Receptor 4 or CD184, is a receptor for the CXC chemokine stromal cell-derived factor-1 (SDF-1) and is involved in cardiogenesis, blood vessel formation, and cerebellar development. CXCR4 has been reported to be ubiquitously expressed in blood and tissue cells.

REFERENCES

1. Zhang L et al. J Virology 5035-5045, 1998.
2. Endres MJ et al. Cell 87:745-756, 1996.
3. Lavi E et al. Am J Pathol 151(4):1035-1042, 1997.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rabbit anti-Mouse CXCR3	ZCM3	71-8800
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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