



Qty: 100 µg/200 µL

Mouse anti-CD91

Catalog No. 37-7600

Lot No.

Mouse anti-CD91

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: A2MR-β1

ISOTYPE: Mouse IgG₁-kappa

IMMUNOGEN

Synthetic peptide derived from the human CD91 beta chain.

SPECIFICITY

This antibody is specific for the beta chain of CD91 protein. On Western blots, it identifies a band at ~ 85 kDa.

REACTIVITY

Reactivity has been confirmed with human fibrocarcinoma HT-1080 cell lysates under non-reducing condition.

Sample	Immuno-Histochemistry (Frozen) ⁵	Western Blotting	ELISA ⁵	Flow Cytometry ⁶
Human	+++	+++	+++	++
Rat	ND	++	ND	ND
Mouse	ND	+	ND	ND

(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

Western Blotting: 1-3 µg/mL

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)

www.invitrogen.com

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com

PI377600

(Rev 10/08) DCC-08-1089

Important Licensing Information - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, www.invitrogen.com). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BACKGROUND

CD91 is also known as alpha 2-Macroglobulin receptor (A2MR), low density lipoprotein receptor-related protein (LRP) or apolipoprotein E receptor (APOER). CD91 is a multifunctional cell plasma membrane receptor involved in the process of endocytosis of various ligands that are important in protease and cytokine activity regulation, and lipoprotein metabolism.^{1,2} CD91 expression in breast cancer cell lines T47D² and BT-20¹ can be affected by both cell culture density alone and by estrogen.

Heat shock proteins appear to be an integral part of the viral life cycle.³ The heat shock proteins interact with antigen-presenting cells (APC) through CD91 in maturation, activation and representation of foreign peptides with MHC class I molecules on their surface. Expression of CD91 was found increased in individuals, who were infected with HIV-1 for more than 10 years with no evidence of progressive disease.⁴

REFERENCES

1. Li Y, et al. *Anticancer Res* 18:1197-1202, 1998.
2. Li Y, et al. *Biochem Biophys Res Commun* 240:122-127, 1997.
3. Guerrero CA, et al. *J of Virol* 76: 4096-4102, 2002.
4. Stebbing J, et al. *Blood* 101:4000-4004, 2003.
5. Horn IR, et al. *Leucocyte Typing V* (Oxford Press) 975-978, 1995.
6. Soone O, et al. *Leucocyte Typing V* (Oxford Press) 980-982, 1995.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-HSP-70	MB-H1	33-3800
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

Zymed[®] and ZyMAX[™] are trademarks of Zymed Laboratories Inc. Cy[™] and Sepharose[®] are registered trademarks of Amersham Biosciences Ltd.

For Research Use Only

TM040105

www.invitrogen.com

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com

PI377600

(Rev 10/08) DCC-08-1089

Important Licensing Information - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, www.invitrogen.com). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.