

IL-21(Ms) Rabbit Recombinant Oligoclonal Antibody – Purified

Catalog no. 710003

(See product label for lot information)



Clone/PAD: 5HCLC
Isotype: IgG
Gene ID: 60505
Protein Acc. no.: Q9ES17
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Application

For use in Western Blotting

Reactivity

This antibody is specific for Mouse IL-21

Immunogen

Recombinant protein

Immunogen sequence

Amino acids 51-146

Expected Reactivity

Based on sequence identity and similarity, reactivity to Mouse is expected.

Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

IL21 is a 15 kDa protein and is a potent factor for naive B cells (1). IL21 and its receptor IL21R are connected to natural killer cell expansion and regulate lymphocyte function (1). IL21 is known to inhibit dendritic cell activation and maturation (2). IL21 and IL21R are known to activate JAK/STAT pathway and have been connected to cancer and autoimmunity (3). IL21 plays an important role in immunoglobulin production (4).

References

1. Parrish-Novak, J., Dillon, S.R., Nelson, A., Hammond, A., Sprecher, C., Gross, J.A., Johnston, J., Madden, K., Xu, W., West, J., *et al.* (2000). Interleukin 21 and its receptor are involved in NK cell expansion and regulation of lymphocyte function. *Nature*, 408, 57-63.
2. Brandt, K., Bulfone-Paus, S., Foster, D.C., and Ruckert, R. (2003). Interleukin-21 inhibits dendritic cell activation and maturation. *Blood* 102, 4090-4098.
3. Davis, I.D., Skak, K., Smyth, M.J., Kristjansen, P.E., Miller, D.M., and Sivakumar, P.V. (2007). Interleukin-21 signaling: functions in cancer and autoimmunity. *Clin Cancer Res* 13, 6926-6932.
4. Ozaki, K., Spolski, R., Feng, C.G., Qi, C.F., Cheng, J., Sher, A., Morse, H.C., 3rd, Liu, C., Schwartzberg, P.L., and Leonard, W.J. (2002). A critical role for IL-21 in regulating immunoglobulin production. *Science* (New York, NY) 298, 1630-1634.

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

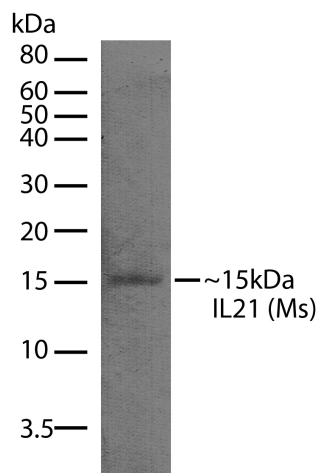
Applications:

	Species	Test Material	Concentration
Western Blotting	Mouse	Rec IL21 (Ms)	4-5 µg/ml

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Western Blot of IL21(Ms) labeled with IL21(Ms) Rabbit Recombinant Oligoclonal Antibody (Cat. No. 710003).

IL21(Ms) Rabbit Recombinant Oligoclonal Antibody (5 µg/ml) was used to label IL21(Ms) in Rec Ms IL21 (5 ng). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No.WB7105).

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

For Research Use Only. Not for human or animal therapeutic or diagnostic use.

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