ARG56683
anti-IL7 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IL7
Tested Reactivity	Ms
Tested Application	ELISA, Neut, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IL7
Species	Mouse
Immunogen	E.coli derived Recombinant Mouse IL-7. (MECHIKDKEG KAYESVLMIS IDELDKMTGT DSNCPNNEPN FFRKHVCDDT KEAAFLNRAA RKLKQFLKMN ISEEFNVHLL TVSQGTQTLV NCTSKEEKNV KEQKKNDACF LKRLLREIKT CWNKILKGSI)
Conjugation	Un-conjugated
Alternate Names	IL-7; Interleukin-7

Application Instructions

Application table

Application	Dilution
ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56792 as a detection antibody
Neut	0.08 - 0.1 µg/ml (To yield [ND50] of the biological activity of Murine IL - 7 (0.50 ng/ml))
WB	0.1 - 0.2 µg/ml

Application Note

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

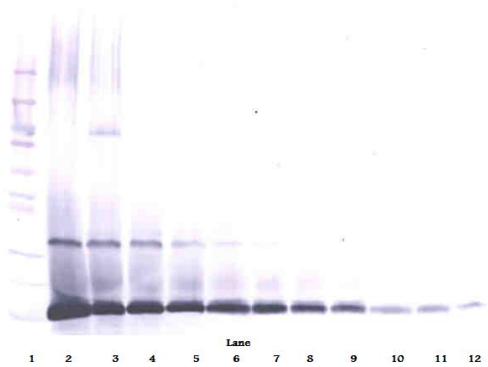
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

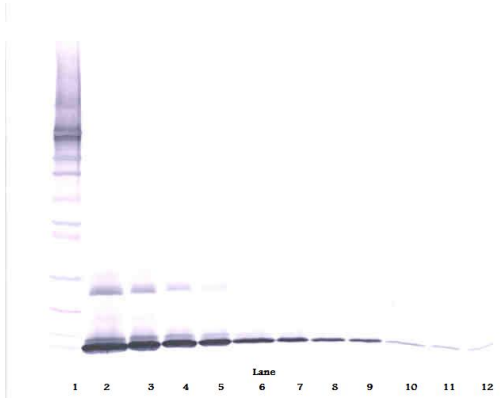
Database links	GeneID: 16196 Mouse Swiss-port # P10168 Mouse
Gene Symbol	Il7
Gene Full Name	interleukin 7
Background	The protein encoded by this gene is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes. Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their presence in normal tissues has not been confirmed.[provided by RefSeq, Dec 2010]
Function	Hematopoietic growth factor capable of stimulating the proliferation of lymphoid progenitors. It is important for proliferation during certain stages of B-cell maturation. [UniProt]
Calculated Mw	20 kDa

Images



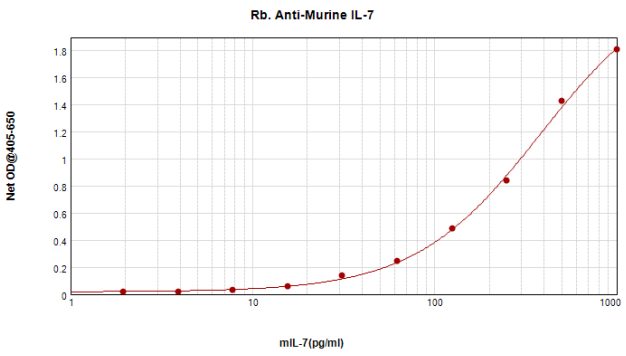
ARG56683 anti-IL7 antibody WB image

Western blot: 250 - 0.24 ng of Mouse IL-7 stained with ARG56683 anti-IL7 antibody, under reducing conditions.



ARG56683 anti-IL7 antibody WB image

Western blot: 250 - 0.24 ng of Mouse IL-7 stained with ARG56683 anti-IL7 antibody, under non-reducing conditions.



ARG56683 anti-IL7 antibody standard curve image

Sandwich ELISA: ARG56683 anti-IL7 antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with ARG56792 anti-IL7 antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.