



Goat anti Equine IL2 polyclonal antibody (CABT-L141)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects equine IL-2 in ELISAs and Western blots. In sandwich immunoassays, less than 0.3% cross-reactivity with recombinant human IL-2, recombinant mouse IL-2, recombinant rat IL-2, recombinant feline IL-2, recombinant bovine IL-2, recombinant canine IL-2, recombinant cotton rat IL-2, and recombinant porcine IL-2 is observed.
Target	IL-2
Immunogen	E. coli-derived recombinant equine IL-2, Ala21-Thr149 (Cys141Ser), Accession #NP_001078902.1
Isotype	IgG
Source/Host	Goat
Species Reactivity	Equine
Purification	Antigen Affinity-purified
Conjugate	Unconjugated
Applications	ELISA(Cap), ICC/IF, WB
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Format	Lyophilized; Small package size(SP): Liquid
Size	100 µg
Buffer	PBS with Trehalose
Preservative	None

Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.
Ship	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

BACKGROUND

Introduction	Interleukin 2 was initially identified as a T cell growth factor that is produced by T cells following activation by mitogens or antigens. IL-2 has since been found to also stimulate the growth and differentiation of B cells, natural killer (NK) cells, lymphocyte activated killer (LAK) cells, monocytes/macrophages and oligodendrocytes. The biological activity of IL-2 is mediated by the binding of IL-2 to cell surface receptor complexes. The functional high-affinity receptor that mediate IL-2 signals is composed of three polypeptide chains, the IL-2 receptor alpha, beta b and gamma subunits. IL-2 also signals via the intermediate affinity receptor complex of the beta b and gamma subunits. In T cells, the beta b and gamma subunits are shared with the IL-15 receptor complex. The gamma subunit of the IL-2 receptor complex has also been shown to be a subunit of the receptor complexes of IL-4, IL-7, IL-9 and IL-21. At the amino acid sequence level, equine IL-2 shares 72%, 70%, 56% and 54% sequence similarities with human, porcine, rat and mouse IL-2, respectively. It has been reported that equine IL-2 augmented proliferation in equine peripheral blood mononuclear cells, but has no effect on mouse CTLL-2 cells.
Keywords	alderleukin;IL2;IL-2;IL-2lymphokine;interleukin 2;interleukin-2;involved in regulation of T-cell clonal expansion;T cell growth factor;T-cell growth factor;TCGF

GENE INFORMATION

Entrez Gene ID	100034204
UniProt ID	P37997