IL7 Conjugated Antibody

Catalog No: #C32367

Package Size: #C32367-AF350 100ul #C32367-AF405 100ul #C32367-AF488 100ul #C32367-AF555 100ul #C32367-AF594 100ul #C32367-AF647 100ul #C32367-AF680 100ul #C32367-AF750 100ul #C32367-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	IL7 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total IL7 protein.
Immunogen Description	Recombinant protein of human IL7.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	IL-7
Accession No.	Swiss-Prot#:P13232NCBI Gene ID:3574
Uniprot	P13232
GeneID	3574;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	20
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Product Description

Antibodies were purified by affinity purification using immunogen.

Background

IL-7 plays a key role in lymphopoiesis and lymphoid homeostasis (1). Stromal and epithelial cells within the bone marrow and thymus produce IL-7 (1). The primary targets of IL-7 are T cells, B cells, and dendritic cells (1). IL-7 is crucial for T cell development, the importance of which is underscored by the lack of T cells in both mice and humans that are deficient in IL-7/IL-7R signaling (1,2). While IL-7 appears to be required for B cell development in mice, the role of IL-7 in human B cell development is unclear (1,3). In addition to its effects on T cell lymphopoiesis, IL-7 promotes the maintenance and survival of na?ve and memory αβ T cells, as well as γδ T cells (1). The IL-7 receptor is a heterodimer of the common γ chain, γc, and the IL-7-specific IL-7Rα (1). IL-7 activates PI3K/Akt, Jak1/2, and Stat1, 3, and 5 (1).

Note: This product is for in vitro research use only