

Product Data Sheet

Recombinant Mouse IL-17A (ELISA Std.)

Catalog # / Size: 576009 / 4 pack

Source: Mouse IL-17A, amino acids Ala26-Ala158 (Accession # NM_010552) was expressed in *E. coli*.

Preparation: ELISA Standard 4-Pack contains four vials of recombinant mouse IL-17A at >5 ng per vial. Recommended for ELISA application only. Standards are calibrated against a BioLegend Master Calibrator.

Formulation: Lyophilized in sterile-filtered PBS, pH 7.2, containing 1% BSA.

Storage: Upon receipt, store unopened vials between 2°C and 8°C immediately and use within 12 months from date of receipt. Prior to use, reconstitute the lyophilized powder with 0.2 ml of PBS containing a carrier protein (e.g., 1% BSA, protease free), pH7.4. Re-cap vial, vortex. Allow the reconstituted standard to sit at room temperature for 15 minutes, vortex again to mix completely. The reconstituted standard stock solution can be aliquoted into polypropylene vials and stored at -70°C for up to one month. Do not re-use diluted standards. Use a manual defrost freezer and avoid repeated freeze thaw cycles.

Applications:

Applications: ELISA

Recommended Usage: Each lot of this protein is quality control tested by ELISA assay. For use as an ELISA standard, a standard curve comprised of doubling dilutions from 1,000 pg/ml to 7.8 pg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: This IL-17A protein is useful as a standard for a mouse IL-17A sandwich ELISA, using unlabeled TC11-18H10.1 antibody (Cat. No. 506901) for capture and biotinylated TC11-8H4 antibody (Cat. No. 507002) for detection.

Application References: 1. Saha A, *et al.* 2012. *Hum Mol Genet.* 21:2233. PubMed.

Description: IL-17A was initially identified from a subtracted cDNA library between closely related murine lymphoid cells and called CTLA-8. IL-17A shares 58% homology with an open reading frame of the T-lymphotropic Herpes virus Samirii virus (viral IL-17). IL-17A belongs to a family of cytokines, which has five members; designated IL-17A-F. IL-17 is expressed by a unique lineage of CD4 T cells, Th17 cells. This lineage selectively produces proinflammatory cytokines including IL-17, IL-17F, IL-21, and IL-22. In the mouse, the differentiation of this new lineage is initiated by TGFbeta-1 and IL-6 or IL-21, which activates Stat3 and induces the expression of the transcription factor retinoic acid-related orphan receptors (RORγt and RORα). IL-23, which also activates Stat3, serves to maintain Th17 cells lineage.

Antigen References: 1. Yu J, *et al.* *Front Biosci* 13:170-177 2008.
2. Toy D, *et al.* *J. Immunol.* 177:36-39 2006.
3. Benghiat FS, *et al.* *Transplant Rev* 23:11-18 2009.
4. Honorati MC, *et al.* *Rheumatology* 40:522-527 2001.
5. Rouvier E, *et al.* *J. Immunol.* 150:5445-5456 1993.
6. Liang SC, *et al.* *J. Immunol.* 179:7791-7799 2007.
7. Ouyang W, *et al.* *Immunity* 28:454-467 2008.

Related Products:	Product	Clone	Application
	Purified anti-mouse IL-17A	TC11-18H10.1	ELISA Capture, CyTOF®, ELISPOT Capture WB, ICFC
	Biotin anti-mouse IL-17A	TC11-8H4	ELISA Detection, ELISPOT Detection
	Mouse IL-17A ELISA MAX™ Standard		ELISA
	Mouse IL-17A ELISA MAX™ Deluxe		ELISA
	LEGEND MAX™ Mouse IL-17A ELISA Kit with Pre-coated Plates		ELISA



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