



## Anti-equine IL-4 Antibody

### ORDERING INFORMATION

**Catalog Number:** AF1809

**Lot Number:** UDF03

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** equine IL-4

**Immunogen:** *E. coli*-derived reqIL-4

**Ig Type:** goat IgG

**Applications:** Western blot  
Immunocytochemistry  
ELISA capture

### Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant equine interleukin 4 (reqIL-4; R&D Systems, Catalog # 1809-EL). Equine IL-4 specific IgG was purified by equine IL-4 affinity chromatography.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody has been selected for its ability to recognize equine IL-4 in direct ELISAs and Western blots.

### Applications

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect equine IL-4. The detection limit for reqIL-4 is approximately 5 ng/lane and 1 ng/lane under non-reducing and reducing conditions, respectively.

**Immunocytochemistry** - This antibody will detect IL-4 in cells. The working dilution is 15 µg/mL. For chromogenic detection of labeling, use R&D Systems Cell and Tissue Staining Kits (CTS Series).

**ELISA capture** - This product can be used as a capture reagent in a equine IL-4 sandwich immunoassay in combination with biotinylated equine IL-4 detection antibody (Cat. # BAF1809) and recombinant equine IL-4 (Cat. # 1809-EL) as the standard. The suggested coating concentration range is 0.2 - 0.8 µg/mL and should be titrated to determine the optimal concentration. A general protocol is provided at [www.RnDSystems.com/MAPELISA](http://www.RnDSystems.com/MAPELISA). In this format, less than 0.7% cross-reactivity is observed with rhIL-4, rmIL-4, rrlIL-4, rcrIL-4, rcalIL-4, rfelIL-4, rpIL-4, rbIL-4 and rrmIL-4.

**Optimal dilutions should be determined by each laboratory for each application.**