



## ***Anti-rat B7-1 Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** AF1214

**Lot Number:** JDN01

**Size:** 100 µg

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

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** rat B7-1 extracellular domain

**Immunogen:** NS0-derived rrB7-1 extracellular domain

**Ig Type:** goat IgG

**Applications:** Direct ELISA  
Western blot  
Immunocytochemistry

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant rat B7-1 (rrB7-1) extracellular domain. Rat B7-1 specific IgG was purified by rat B7-1 affinity chromatography.

### ***Formulation***

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

### ***Endotoxin Level***

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

### ***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 rat B7-1 in the applications listed below.

### ***Applications***

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect rat B7-1. The detection limit for rrB7-1 is approximately 0.1 ng/well. In this format, this antibody shows approximately 15% cross-reactivity with rmB7-1, 5% cross-reactivity with rhB7-1 and less than 1% cross-reactivity with rmB7-H3, rrB7-2, rmB7-H1 and rmPD-L2.

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect rat B7-1. The detection limit for rrB7-1 is approximately 0.5 ng/lane under non-reducing and reducing conditions.

**Immunocytochemistry** - This antibody will detect B7-1 in cells. The working dilution is 5 - 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

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