



## ***Biotinylated Anti-mouse CD164 Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF3118

**Lot Number:** WPE01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** mouse CD164 extracellular  
domain

**Immunogen:** NS0-derived rmCD164  
extracellular domain

**Ig Type:** goat IgG

**Application:** Western blot

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant mouse CD164 (rmCD164; aa 24 - 160; Accession # Q9R0L9) extracellular domain. Mouse CD164 specific IgG was purified by mouse CD164 affinity chromatography and then biotinylated. CD164, also known as MGC-24 (Multi-glycosylated protein 24), is a type I transmembrane sialomucin containing two extracellular mucin domains linked by a non-mucin domain. Depending on the cell type, CD164 has been localized to endosomes and lysosomes or the plasma membrane. When present at the cell surface, CD164 has been shown to function as an adhesion molecule that may play a role in hematopoiesis. At least two mouse CD164 splice variants have been reported. The shorter variant contains a 24 aa deletion between residues 86 and 109. The amino acid sequence of the extracellular domain of mouse CD164 is 79% and 58% identical to that of the rat and human protein, respectively.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/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 use as a detection antibody in mouse CD164 western blots.

### ***Application***

**Western Blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse CD164. The detection limit for rmCD164 is approximately 10 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 10% cross-reactivity with rhCD164.

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