

## Anti- $\alpha$ -gal [B4H2] Bulk Size Ab01160-1.1-BT

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgM format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** B4H2

**Alternative Name(s) of Target:** alpha gal; Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc-R; gal

**UniProt Accession Number of Target Protein:**

**Published Application(s):** lysis, ELISA

**Published Species Reactivity:** Cow, Rabbit, Mouse

**Immunogen:** This antibody was raised by immunising  $\alpha$ 1,3galactosyltransferase knock-out mice, which lack  $\alpha$ -gal epitopes. Mice were immunised with rabbit red cell membranes, on which  $\alpha$ -gal is the major carbohydrate epitope.

**Specificity:** This antibody is specific for  $\alpha$ -gal epitopes (Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc-R) on glycoprotein and glycolipid molecules.

**Application Notes:** This antibody binds to glycoprotein and glycolipid molecules expressing  $\alpha$ -gal epitopes, including  $\alpha$ -gal-BSA, in ELISA analysis (Chen et al, 2005). It does not cross-react with any glycoproteins lacking this epitope. This antibody binds to the  $\alpha$ -gal epitopes on the hybridoma cells producing the antibody, so can mediate complement mediated autolysis in the presence of rabbit serum (Chen et al, 2000).

**Antibody First Published in:** Chen et al. Genes coding evolutionary novel anti-carbohydrate antibodies: studies on anti-Gal production in  $\alpha$ 1,3galactosyltransferase knock out mice Molecular Immunology, 2000, Vol.37(8), pp.455-466 [PMID:11090880](#)

**Note on publication:** Describes the original generation of this antibody, and its characterisation in ELISA analysis.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.