

Anti- α -gal [B1H12] Standard Size Ab01161-21.0

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

Isotype and Format: Mouse IgM, Kappa

Clone Number: B1H12

Alternative Name(s) of Target: alpha gal; Gal α 1-3Gal β 1-4GlcNAc-R; alpha gal; 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 α 1,3galactosyltransferase knock-out mice, which lack α -gal epitopes. Mice were immunised with rabbit red cell membranes, on which α -gal is the major carbohydrate epitope.

Specificity: This antibody is specific for α -gal epitopes (Gal α 1-3Gal β 1-4GlcNAc-R) on glycoprotein and glycolipid molecules.

Application Notes: This antibody binds to glycoprotein and glycolipid molecules expressing α -gal epitopes, including α -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 α -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 α 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: 50 μ g Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.