

Anti-Galactosidase alpha Picoband Antibody

Catalog # ABO10155

Product Information

Application	WB
Primary Accession	P51569
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Alpha-galactosidase A(Gla) detection. Tested with WB in mouse.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Other Names	Alpha-galactosidase A, 3.2.1.22, Alpha-D-galactosidase A, Alpha-D-galactoside galactohydrolase, Melibiase, Gla, Ags
Calculated MW	47643
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse
Subcellular Localization	Lysosome.
Source	Eukaryota
Protein Name	Alpha-galactosidase A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Gla (218-275aa DIQYYCNHWRNFDDVYDSWESIKNILSWTVVYQKEIVEVA), different from the related human sequence by fifteen amino acids.
Purification	Immunogen affinity purified.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

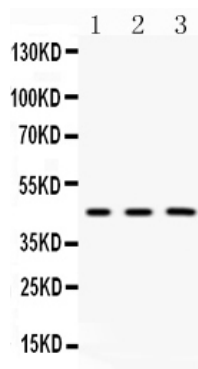
Name Gla {ECO:0000312 | MGI:MGI:1347344}

Synonyms	Ags
Function	Catalyzes the hydrolysis of glycosphingolipids and participates in their degradation in the lysosome.
Cellular Location	Lysosome.

Background

Alpha-galactosidase is a glycoside hydrolase enzyme that encoded by the GLA gene. This gene is a homodimeric glycoprotein that hydrolyses the terminal alpha-galactosyl moieties from glycolipids and glycoproteins. This enzyme predominantly hydrolyzes ceramide trihexoside, and it can catalyze the hydrolysis of melibiose into galactose and glucose. A variety of mutations in this gene affect the synthesis, processing, and stability of this enzyme, which causes Fabry disease, a rare lysosomal storage disorder that results from a failure to catabolize alpha-D-galactosyl glycolipid moieties.

Images



Western blot analysis of Gla expression in mouse thymus extract (lane 1), mouse liver extract (lane 2) and mouse spleen extract (lane 3). Gla at 46KD was detected using rabbit anti- Gla Antigen Affinity purified polyclonal antibody (Catalog # ABO10155) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.