Anti-β-Gal-mlgG2a InvivoFit™

Mouse IgG2a monoclonal antibody against β-galactosidase; Isotype control

Catalog code: bgal-mab10-1, bgal-mab10-10, bgal-mab10-50

https://www.invivogen.com/anti-beta-gal-migg2a

For research use only, not for diagnostic or therapeutic use

Version 21/13-EG

PRODUCT INFORMATION

Contents:

Anti-β-Gal-mlgG2a InvivoFit[™], provided azide-free and lyophilized, is a purified monoclonal antibody (mAb). It is available in two pack sizes:

- 1 mg
- 10 mg
- 50 mg (5 x 10 mg)

Target: E. coli β -galactosidase (β -Gal)

Species reactivity: Does not react with murine proteins

Source: Chinese hamster ovary (CHO) cells

Sequence: ~100% murine (constant region and variable region)

Isotype: Murine IgG2a Light chain type: Kappa

Purification: By affinity chromatography with protein G

Formulation: 0.2 µm filtered solution in 150 mM sodium chloride,

20 mM sodium phosphate buffer with 5% saccharose Administration: Suitable for parenteral delivery in mice Tested applications: Flow cytometry and ELISA

Antibody resuspension (2 mg/ml)

<u>Note:</u> Ensure you see the lyophilized pellet before resuspension. Resuspend Anti-β-Gal-mIgG2a InvivoFit[™] with sterile water

Add 500 µl to 1 mgAdd 5 ml to 10 mg

Storage and stability

- Product is shipped at room temperature. Store lyophilized antibody at -20 °C. Lyophilized product is stable for at least 1 year.
- Reconstituted antibody is stable for 1 month when stored at 4° C and for 1 year when aliquoted and stored at -20 °C. Avoid repeated freeze-thaw cycles.

Quality control

- Absence of binding of Anti- β -Gal-mlgG2a InvivoFit[™] to mouse cell lines has been tested using flow cytometry.
- The complete sequence of this antibody has been verified.
- <5% aggregates (confirmed by size exclusion chromatography).
- Anti- β -Gal-mlgG2a InvivoFit^m is guaranteed sterile and its endotoxin level is <1 EU/mg of the protein (determined by the LAL assay).

MOUSE ANTI-MOUSE MABS

InvivoGen offers a collection of InvivoFit™ recombinant mouse anti-mouse mAbs specifically adapted for *invivo* studies. This collection includes mAbs targeting immune checkpoints such as PD-1. For more information visit www.invivogen.com/mouse-anti-mouse-mabs.

For your research, InvivoGen provides anti- β -Gal isotype controls, comprising the variable region of a mouse monoclonal antibody targeting β -Gal and the constant region of either the engineered mouse IgG1e3 isotype or the native mouse IgG2a isotype. These isotypes differ in their effector functions, such as antibody-dependent cellular cytotoxicity (ADCC), antibody-dependent cell phagocytosis (ADCP), and complement-dependent cytotoxicity (CDC) as presented in the table below.

Effector function	Mouse IgG1e3	Mouse IgG2a
ADCC	-	++
ADCP	-	+++
CDC	-	++

DESCRIPTION

Anti- β -Gal-mlgG2a InvivoFit[™] is a recombinant mAb comprising the variable region of the hybridoma-derived mAb Mouse IgG2a Control (clone: T9C6) that targets *E. coli* β -galactosidase (β -Gal). This mAb does not react with murine proteins. Of note, Mouse IgG2a Control was generated by DNA immunization with a plasmid expressing the β -Gal gene in Swiss mice.

Anti-β-Gal-mlgG2a InvivoFit[™] features the murine IgG2a isotype, a major immunoglobin present in serum. This isotype displays very high ADCP, high ADCC and high CDC¹.

Anti- β -Gal-mlgG2a InvivoFit^M is provided as an isotype control for use with InvivoGen's IgG2a antibodies in the mouse anti-mouse mAbs collection (see above). This mAb has been produced in CHO cells and purified by affinity chromatography with protein G.

1. Nimmerjahn F. et al., 2005. FcgammaRIV: a novel FcR with distinct IgG subclass specificity. Immunity. 2005 Jul;23(1):41-51.

RELATED PRODUCTS

Product	Catalog Code
Anti-mCTLA4-mlgG2a InvivoFit™	mctla4-mab10-1
Anti-mgp75-mlgG2a InvivoFit™	mgp75-mab10-1
Anti-β-Gal-mlgG1e3 InvivoFit™	bgal-mab15-1
Mouse IgG2a Control	mabg2a-ctrlm



InvivoGen Hong Kong: +852 3622-3480 E-mail: info@invivogen.com