

**Anti-Beta Galactosidase (Beta-Gal.) Antibody Conjugates**

<b>Cat.</b> BGAL12-S	Rabbit Anti-Beta-Gal. Antiserum	<b>SIZE:</b> 100 ul
<b>Cat.</b> BGAL12-A	Rabbit Anti-Beta-Gal. IgG unlabeled	<b>SIZE:</b> 100 ul
<b>Cat.</b> BGAL12-HRP	Rabbit Anti-Beta-GAL. IgG- <b>HRP</b> Conjugate	<b>SIZE:</b> 100 ul
<b>Cat.</b> BGAL12-BTN	Rabbit Anti-Beta-GAL. IgG- <b>Biotin</b> Conjugate	<b>SIZE:</b> 100 ul
<b>Cat.</b> BGAL12-FITC	Rabbit Anti-Beta-GAL. IgG- <b>FITC</b> Conjugate	<b>SIZE:</b> 100 ul

Recombinant DNA technology allows the addition of short pieces of well-defined tags, "peptides" or proteins at the amino or c-terminus of target genes, which can provide 'affinity handles' designed to bind specific matrices. Therefore, tags enable a selective identification and purification of the protein of interest. Eukaryotic genes are often cloned into E. coli B-galactosidase (lacZ) gene, resulting in the expression of a desired protein as a fusion hybrid with B-galactosidase (1-3). Anti-B-galactosidase antibodies allow a simple isolation of fusion proteins directly from the crude bacterial lysates, using immunoaffinity chromatography (1-5) or used in immunoprecipitation. Anti-Beta galactosidase can also be used for the immunocytochemical detection of B-galactosidase in cells and tissues that express transfected bacterial lacZ gene (6). Ant-beta galactosidase may be used in various immunoassays to identify the expression of beta-galactosidase fusion protein.

**Source of Antigen and Antibodies**

**Cat # BGAL12-S**

Recombinant purified E. coli Beta-GAL. (~16 kda) was injected into **rabbits** to produce high titer polyclonal antibodies (**Cat # BGAL12-S**). It is provided as undiluted, unpurified antiserum containing 0.05% azide as preservative. Use antibody at 1:1K-1: 5K for Western and 1:1K-: 10K for ELISA.

**Cat # BGAL12-A**

Antibodies (IgG) were purified by delipidation, salt fractionation, and ion-exchange (IgG) (**cat # BGAL12-A**). It is supplied in PBS, pH 7.4 at 1 mg/100 ul in liquid or powder form. Dissolve powder in 100 ul water and use at 1:1K-1: 5K for Western and 1:1K-: 10K for ELISA.

**Suggested 2-ab for #BGAL12-S or BGAL12-A**

Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)

**Suggested -ve control IgG**

# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

**Cat # BGAL12-HRP**

Anti-Beta-GAL. IgG was coupled to horse radish peroxidase, HRP (**Cat # BGAL12-HRP**) using glutaraldehyde method. Antibody:HRP molar ratio is ~1.0-1.5). Anti-Beta-GAL.-HRP conjugate is supplied in PBS, pH 7.4 containing 0.01% thiomersal as preservative. Do not add azide as it inhibits HRP activity. Store at 2-4oC for 2-4 weeks and at -20oC in suitable aliquots for long term

storage. Do not store diluted (working solution) for more than a few hours.

**Cat # BGAL12-BTN**

Anti-Beta-GAL. IgG was coupled to biotin (**Cat # BGAL12-BTN**) using NHS-Biotin. Biotin to protein ratio is 10-20 biotin per IgG molecule. It is supplied in PBS pH 7.4 containing 0.05% azide and 1% BSA. Store at 2-4oC for 2-4 weeks and at -20oC in suitable aliquots for long term storage. For western, use at 1:1K-1:10K and for ELISA 1:5K-1:50K. Do not store diluted (working solution).

**Cat # BGAL12-FITC**

Anti-Beta-GAL. IgG was coupled to FITC (**Cat # BGAL12-FITC**). FITC to protein ratio is 3-4 FITC per IgG molecule. It is supplied in PBS pH 7.4 containing 0.05% azide and 1% BSA. Store at 2-4oC for 2-4 weeks and at -20oC in suitable aliquots for long term storage. For immunofluorescence, use 1:100-1:1000. Do not store diluted (working solution).

Antibody concentration must be optimized for each application under defined experimental conditions.

**Specificity**

Purified recombinant Beta-GAL. protein is available to optimize the antibody dilution and use as positive control (**Cat # BGAL11-C**).

**Stability:** 6-12 months at -20oC or below.

**Shipping:** 4oC for solutions and room temp for powder.

\*This product is for In vitro research use only.

**Other Fusion tag antibodies available from ADI**

Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, Flag, HA-tag, and c-myc

Western Blot Recycling Kit (Strips blots in 5 minutes) and re-use the same blot with multiple antibodies

BGAL12-S-A-HRP-BTN.FITC

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