

Datasheet for MB-302-0100**12 Epitope Tag Control Lysate (GST)****Overview**

Description:	12 Epitope Tag Control Lysate (GST) - MB-302-0100
Item No.:	MB-302-0100
Size:	100 µL
Applications:	SDS-PAGE, WB
Expressed in:	E. coli

Product Details

Background:	Epitope tags are short peptide sequences easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Most often sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins. This allows anti-epitope tag antibodies to serve as universal detection reagents for any tag containing protein produced by recombinant means.
Synonyms:	Flag-tag marker, GST-tag marker, HA-tag marker, 6XHIS-tag marker, T7-tag marker, cMyc-tag marker, V5-tag marker, S-tag marker, HSV-tag marker, VSV-tag marker, Glu-Glu-tag marker, E-tag marker, Lysate marker, Protein Marker, Loading control, epitope tag marker, positive control marker
Expressed in:	E. coli
Reagent Type:	MW Standards

Target Details

Purity/Specificity:	Control lysate made in E. coli for Western blotting expresses 12 different epitope tags.
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Application Details

Tested Applications:	SDS-PAGE, WB
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Application Note: This 12 Epitope Tag Control Lysate has been tested in SDS-PAGE and Western blot and is designed for use as a positive control for anti-epitope tag antibodies. This E. coli lysate contains a recombinant protein comprised of the following commonly used epitope tags: GST--T7--HSV--cMyc--VSV--Glu-Glu--V5--E-tag--Flag--S tag--HA--6XHis. A 48 kDa recombinant protein is visualized after SDS-PAGE and Western blotting using an antibody recognizing any of the expressed epitope tags listed above. Thaw the lysate to room temperature. Gently invert vial several times to ensure that the solution is homogeneous and that any precipitated material is re-dissolved. A loading volume of 0.25 to 2 μ L is recommended for Western blotting.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
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WB:	User Optimized
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Formulation

Physical State:	Liquid
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Concentration:	1.0 mg/mL by BCA assay
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Buffer:	1X SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8)
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Stabilizer:	None
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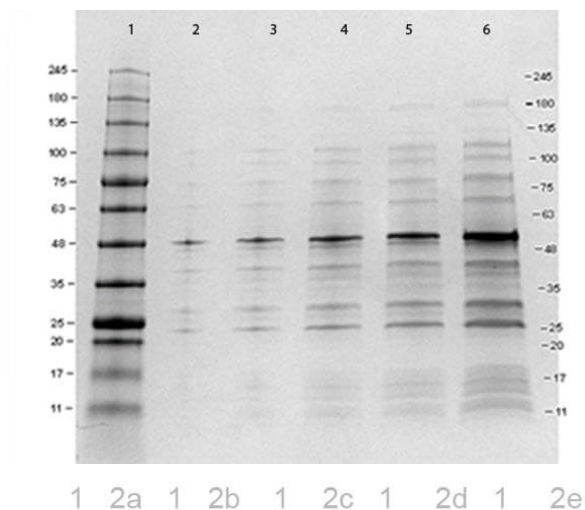
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition:	Store vial at -70° C or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles.
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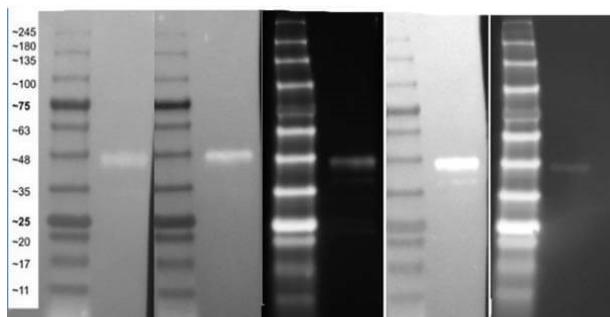
Expiration:	Expiration date is one (1) year from date of receipt.
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Images



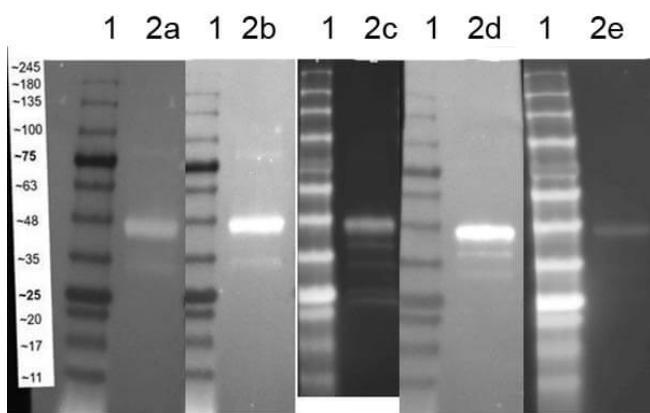
SDS-PAGE

SDS-Page of 12 Epitope GST Tag Protein Lysate. Lane 1: Opal Molecular Weight MB-210-0500. Lane 2: 0.5µg lysate. Lane 3: 1.0µg lysate. Lane 4: 2.0µg lysate. Lane 5: 3.0µg lysate. Lane 6: 5.0µg lysate.



Western Blot

Western Blot of GST tag- 12 epitope protein marker lysate. Lane 1: 7µL load of MB-210-0500 molecular weight marker. Lane 2: 5µg load of 12 epitope GST tag protein marker. Antibody: Incubate for 1hr at RT. Lane 2a: Mouse anti-Flag DyLight488 (p/n 200-341-383) at 1:40,000. Lane 2b: Mouse anti-6xHis DyLight488 (p/n 200-341-382) at 1:40,000. Lane 2c: Mouse anti-GST DyLight649 (p/n 200-343-200) at 1:5,000. Lane 2d: Rabbit anti-cMyc DyLight488 (p/n 600-441-381) at 1:10,000. Lane 2e: Rabbit anti-HA DyLight649 (p/n 600-443-384) at 1:10,000.



Western Blot

Western Blot of GST tag- 12 epitope protein marker lysate. Lane 1: 7µL load of MB-210-0500 molecular weight marker. Lane 2: 10µg load of 12 epitope GST tag protein marker. Antibody: Incubate for 1hr at RT. Lane 2a: Mouse anti-Flag DyLight488 (p/n 200-341-383) at 1:40,000. Lane 2b: Mouse anti-6xHis DyLight488 (p/n 200-341-382) at 1:40,000. Lane 2c: Mouse anti-GST DyLight649 (p/n 200-343-200) at 1:5,000. Lane 2d: Rabbit anti-cMyc DyLight488 (p/n 600-441-381) at 1:10,000. Lane 2e: Rabbit anti-HA DyLight649 (p/n 600-443-384) at 1:10,000.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.