12 Epitope MBP Tag Protein Marker Lysate - MB-301-0100

Code: MB-301-0100 **Size:** 100 µL

Product Description: 12 Epitope MBP Tag Protein Marker Lysate - MB-301-0100

Concentration: 5.0 mg/mL by modified Lowry assay

PhysicalState: Liquid (in 1x Loading Buffer)

Label Unconjugated

Buffer See application note.

Stabilizer None

Storage Condition Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing.

Synonyms Flag-tag marker, MBP-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

Application Note This 12 Epitope Tag Protein Marker Lysate 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: MBP--T7--HSV--cMyc--VSV--Glu-Glu--V5--E-tag--Flag--S tag--HA--6XHis. A 58 kDa recombinant protein is a visualized after SDS-polyacrylamide gel electrophoresis and western blotting using an antibody recognizing any of the expressed epitope tags listed above. The E.coli lysate was prepared by lysing cells in loading buffer/RIPA/Halt protease, then heating to 95° C for 10' followed by centrifugation at 13,000 g for 15'. 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 µL is recommended for western blotting. This product is diluted in 1X SDS-PAGE Sample Buffer (62.5 mM Tris HCL, 2% SDS, 10% Glycerol and 0.005% Bromophenol Blue, pH 6.8).

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.

Purity And Specificity Loading control for Western blotting. Lysate Marker expresses 12 different epitope tags.

Assay Dilutions User Optimized

Western Blot User Optimized

Other Assays User Optimized

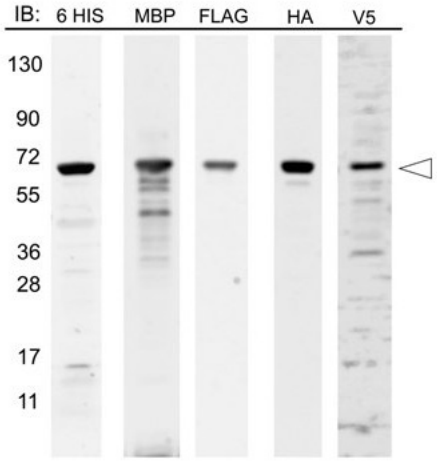
Expiration Expiration date is one (1) year from date of opening.

Related Products

200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Images

1	Western blot of 12-Epitope Tag Protein Marker lysate. The blot shows intense signal corresponding to the 12-Epitope Tag Protein Marker. The recommended load is 1 µl of lysate per lane for SDS-PAGE followed by western blotting. The membrane was probed with primary antibody at a 1:1,000 dilution in 5% BLOTTO in TBST overnight at 4°C.



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.