

Datasheet for 200-350-383**DYKDDDDK Tag (Anti-FLAG®) Antibody Agarose Conjugated****Overview**

Description:	Antibody for the detection of FLAG® Conjugated proteins (MOUSE) Monoclonal Antibody Agarose Conjugated - 200-350-383
Item No.:	200-350-383
Size:	1 mL
Applications:	IP, WB
Reactivity:	FLAG-Tag
Host Species:	Mouse

Product Details

Background:	Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Anti-epitope tag antibodies serve as universal detection reagents for any tag containing protein produced by recombinant means. Epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein. Rockland Immunochemicals produces anti-epitope tag antibodies against many common epitope tags including Myc, GST, GFP, 6X His, MBP, FLAG® and HA.
Synonyms:	mouse anti-FLAG® tag agarose gel, mouse anti-DYKDDDDK agarose gel, Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys, D-Y-K-D-D-D-D-K, DDK, FLAG, FLAG antibody, anti-Flag, anti-DDK, DDK antibody
Host Species:	Mouse
Conjugate:	Agarose
Clonality:	Monoclonal
Clone ID:	29E4.G7
Format:	IgG2a

Target Details

Reactivity:	FLAG-Tag
Immunogen Type:	Conjugated Peptide

Immunogen:	DYKDDDDK Tag (Anti-FLAG®) Antibody Agarose Conjugated was produced in mice by repeated immunizations with a synthetic peptide corresponding to the FLAG® epitope tag peptide DYKDDDDK (Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys) conjugated to KLH.
Purity/Specificity:	DYKDDDDK Tag (Anti-FLAG®) Antibody Agarose Conjugated is a purified mouse IgG2a monoclonal antibody coupled to activated agarose. This product is intended for purification of proteins containing the FLAG® epitope tag sequence. Binding Specificity: DYKDDDDK Tag (Anti-FLAG®) Antibody Agarose Conjugated binds the FLAG® epitope tag sequence (Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys) fused to the amino terminal, carboxy terminal or internal locations of targeted recombinant proteins expressed in transfected or transformed cells. D-Y-K-D-D-D-D-K peptide (p/n 000-000-383) is recommended for competitive elution to recover fusion protein (see protocol).
Relevant Links:	DYKDDDDK (FLAG) IP Protocol

Application Details

Tested Applications:	IP, WB
Application Note:	DYKDDDDK Tag (Anti-FLAG®) Antibody Agarose Conjugated has been tested by IP and western blot and is optimally suited for immunoprecipitation and purification of FLAG® tagged fusion proteins. DYKDDDDK Tag (Anti-FLAG®) Antibody Agarose Conjugated recognizes the FLAG® epitope tag fused to either the amino- or carboxy-terminal ends or an internal location of targeted fusion proteins. The epitope tag peptide sequence was first derived from the 11-amino-acid leader peptide of the gene-10 product from bacteriophage T7. DYKDDDDK is the most commonly used hydrophilic octapeptide tag. Use D-Y-K-D-D-D-D-K peptide (p/n 000-000-383) for competitive elution to recover fusion protein (see protocol). Anti-FLAG® is a registered trademark of Sigma-Aldrich. Refer to the protocol for complete instructions for use including preferred buffers for elution. Do not use buffers that may denature the anti-DYKDDDDK antibody.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IP:	10 µL resin binds >1 µg FLAG® fusion protein

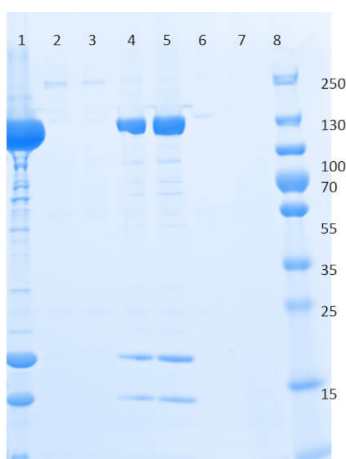
Formulation

Physical State:	Suspension of agarose beads
Concentration:	1.0 mg antibody per cc agarose
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

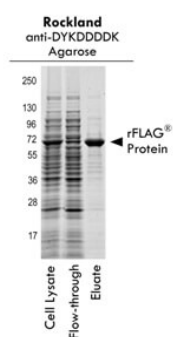
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4°C prior to opening.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



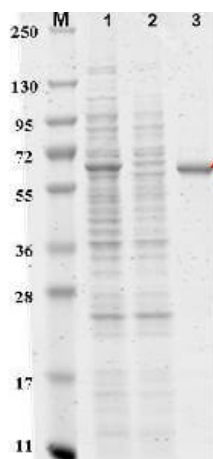
SDS-PAGE

SDS-PAGE of Anti-DYKDDDDK (FLAG® tag) Affinity Gel. Lane 1: DYKDDDDK tagged recombinant protein. Lane 2: flow through. Lane 3: wash. Lane 4: eluted fraction one. Lane 5: eluted fraction two. Lane 6: eluted fraction three. Lane 7: blank. Lane 8: molecular weight markers. Load: 5 µg protein lane 1, 15µL per each other lane. Predicted/Observed size: 135kDa for DYKDDDDK tagged recombinant protein.



SDS-PAGE

SDS-PAGE of Anti-DYKDDDDK (FLAG® tag) Affinity Gel. Lane 1: crude lysate containing over-expressed DYKDDDK-tagged recombinant protein. Lane 2: unbound flow-through of consisting of endogenous E.coli proteins. Lane 3: enriched recombinant protein. Load: 5 µg protein, 15µL flow through. Predicted/Observed size: 70kDa for DYKDDDDK tagged recombinant protein.



SDS-PAGE

SDS-PAGE of Anti-DYKDDDDK (FLAG® tag) Affinity Gel. Lane 1: Cell lysate before purification. Lane 2: Flow through (used cell lysate). Lane 3: Purified DYKDDDDK (FLAG® tag) recombinant protein (arrowhead). Load: (6 µL per lane). Predicted/Observed size: 70kDa for DYKDDDDK tagged recombinant protein.

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.