Product Datasheet

DYKDDDDK Tag (FLAG) Antibody Agarose Conjugated (orb344560)

Catalog Number	orb344560
Category	Antibodies
Description	Mouse monoclonal antibody against DYKDDDDK (FLAG tag) conjugated to Agarose.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG2a
Conjugation	Agarose
Form/Appearance	Suspension of agarose beads
Concentration	0.99 mg
Buffer/Preservatives	Preservative: 0.01% (w/v) Sodium Azide. Stabilizer: None; Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Purity	Anti-DYKDDDDK Affinity Gel 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: Anti-DYKDDDDK Affinity Gel 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 is recommended for competitive elution to recover fusion protein (see protocol).

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Immunogen	Anti-DYKDDDDK Affinity Gel antibody 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.
Tested applications	IP, WB
Dilution range	IP: 10 µL resin binds >1 µg FLAG fusion protein
Application notes	Anti-DYKDDDDK Affinity Gel has been tested by SDS-Page, IP, and western blot and is optimally suited for immunoprecipitation and purification of FLAG tagged fusion proteins. Anti-DYKDDDDK Affinity Gel antibody 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 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.
Antibody Type	Primary Antibody
Clone Number	29E4.G7
Storage	Store vial at 4°C prior to opening.
Note	For research use only
Expiration Date	12 months from date of receipt.

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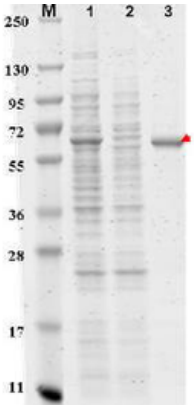
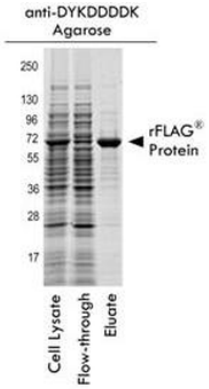
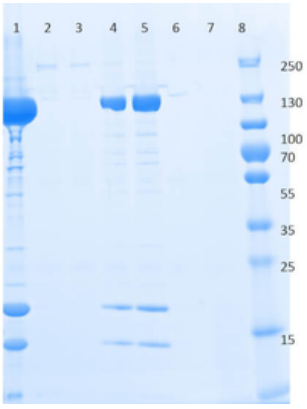


SDS-PAGE of Anti-DYKDDDDK (FLAG® tag) Affinity Gel. Lane 1: Cell lysate before purification. Lane 2: Flow through (used cell lysate). Lane 3: Purified DYKDDDDK (FLAG® tag) recombinant protein (arrowhead). Load: (6 µl per lane). Predicted/Observed size: 70kDa for DYKDDDDK tagged recombinant protein.



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, 15 µl flow through. Predicted/Observed size: 70kDa for DYKDDDDK tagged recombinant protein.



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, 15 µl per each other lane. Predicted/Observed size: 135kDa for DYKDDDDK tagged recombinant protein.

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