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# Anti-DYKDDDDK Affinity Gel (Binds the same epitope as Sigma's Anti-FLAG® M2 Antibody)

**Anti-DYKDDDDK (FLAG® tag) Affinity Gel**
**Catalog # ASR4338**

## Specification

### Anti-DYKDDDDK Affinity Gel (Binds the same epitope as Sigma's Anti-FLAG® M2 Antibody) - Product Information

| | |
|---|---|
| Host | **Mouse** |
| Conjugate | **Agarose** |
| Clonality | **Monoclonal** |
| Application | **IP, I, LCI** |
| Application Note | **Anti-DYKDDDDK Affinity Gel has been tested by 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 (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.** |
| Physical State | **Suspension of agarose beads** |
| Buffer | **0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2** |
| 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.** |
| Preservative | **0.01% (w/v) Sodium Azide** |

### Anti-DYKDDDDK Affinity Gel (Binds the same epitope as Sigma's Anti-FLAG® M2 Antibody) - Additional Information

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### 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 (p/n 000-000-383) is recommended for competitive elution to recover fusion protein (see protocol).

### Storage Condition
Store vial at 4°C prior to opening.

### Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

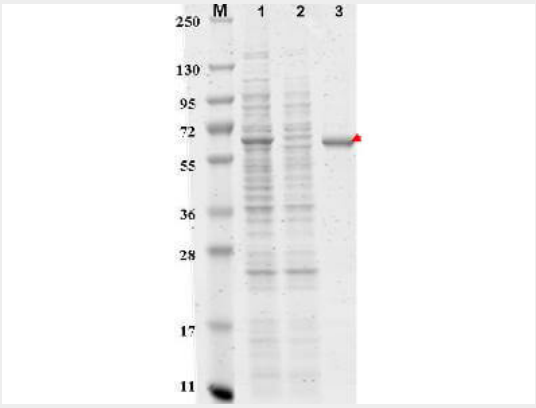
## Anti-DYKDDDDK Affinity Gel (Binds the same epitope as Sigma's Anti-FLAG® M2 Antibody) - Protein Information

## Anti-DYKDDDDK Affinity Gel (Binds the same epitope as Sigma's Anti-FLAG® M2 Antibody) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-DYKDDDDK Affinity Gel (Binds the same epitope as Sigma's Anti-FLAG® M2 Antibody) - Images




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.

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## Anti-DYKDDDDK Affinity Gel (Binds the same epitope as Sigma's Anti-FLAG® M2 Antibody) - 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.