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Product datasheet for AM08434PU-S

DYKDDDDK Epitope Tag Mouse Monoclonal Antibody [Clone ID: 29E4.G7.H11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	29E4.G7.H11
Applications:	ELISA, FC, IP, WB
Recommended Dilution:	This antibody is optimally suited for monitoring the expression of FLAG™ tagged fusion proteins. As such, this antibody can be used to identify fusion proteins containing the FLAG™ epitope. The antibody recognizes the epitope tag fused to either the amino- or carboxy-termini of targeted 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. Recommended Dilutions: ELISA: 1/20,000-1/100,000. Western Blot: 1/2,000-1/20,000. Flow Cytometry: 1/2,000-1/10,000.
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	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 using maleimide.
Specificity:	Carboxy and amino terminal linked FLAG™ tagged recombinant proteins. This antibody is directed against the FLAG™ motif and is useful in determining its presence in various assays where the epitope tag is present at either the amino or carboxy terminus of recombinant proteins. This monoclonal anti-FLAG tag antibody detects over-expressed proteins containing the FLAG™ epitope tag. In western blotting of bacterial extracts, the antibody does not cross-react with endogenous proteins.

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Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium Azide as preservative. State: Purified State: Liquid (sterile filtered) purified IgG fraction.
Concentration:	lot specific
Purification:	Protein A Chromatography followed by extensive dialysis against the buffer.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Background:	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. Most often sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins containing the epitope tag sequence. This allows anti-epitope tag antibodies to serve as universal detection reagents for any tag containing protein produced by recombinant means. This means that anti-epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein. The anti-epitope tag antibody is usually functional in a variety of antibody-dependent experimental procedures. Expression vectors producing epitope tag fusion proteins are available for a variety of host expression systems including bacteria, yeast, insect and mammalian cells.
Synonyms:	FLAG Epitope Tag, ECS Epitope Tag, FLAG-tag, ECS-tag, D-tag

Product images:

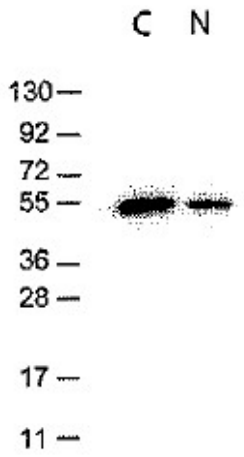

Figure 1. Affinity purified Antibody to detect FLAG (TM) conjugated proteins detects both C terminal linked and N terminal linked FLAG (TM) tagged recombinant proteins by western blot

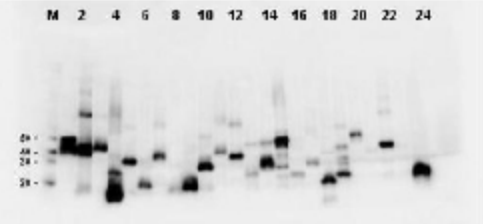

Figure 2. Monoclonal Antibody to detect FLAG conjugated proteins. Twenty-four (24) clones were randomly selected and grown up from gylcerol stocks by inoculating 0.5 mL 2xYT medium. Expression of recombinant proteins was induced by the addition of IPTG. Pr