Product Datasheet

DYKDDDDK Epitope Tag Antibody (29E4.G7) - BSA Free
NBP1-97410-0.1mg

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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Updated 2/23/2025 v.20.1

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DYKDDDDK Epitope Tag Antibody (29E4.G7) - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	29E4.G7
Preservative	0.01% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Product Description

Description	This product is an IgG fraction antibody purified from ascites by Protein A chromatography followed by extensive dialysis against the buffer stated above. The purified antibody is directed against the FLAG(TM) 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 Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.
Host	Mouse
Species	Epitope Tag
Specificity/Sensitivity	The purified antibody is directed against the FLAG(TM) 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(TM) tag antibody detects over-expressed proteins containing the FLAG(TM) epitope tag. In western blotting of bacterial extracts, the antibody does not cross-react with endogenous proteins.
Immunogen	This DYKDDDDK Epitope Tag Antibody (29E4.G7) was produced in mice by repeated immunizations with a synthetic peptide corresponding to the FLAG(TM) epitope tag peptide DYKDDDDK Epitope Tag Epitope Tag (Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys) conjugated to KLH using maleimide. Residues of glycine and cysteine were added to the termini to facilitate coupling.
Notes	FLAG(R) and ANTI-FLAG(R) are registered trademarks of Sigma-Aldrich Co. LLC. FLAG(R) and ANTI-FLAG(R) are registered trademarks of Sigma-Aldrich Co. LLC.

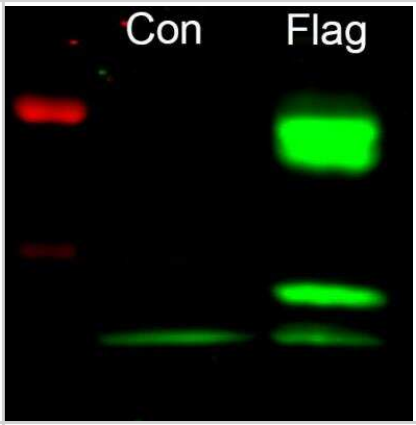
Product Application Details

Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunohistochemistry
Recommended Dilutions	Western Blot 1:2000-1:10000, Simple Western, Flow Cytometry, ELISA 1:150000-1:250000, Immunohistochemistry 1:1000-1:5000

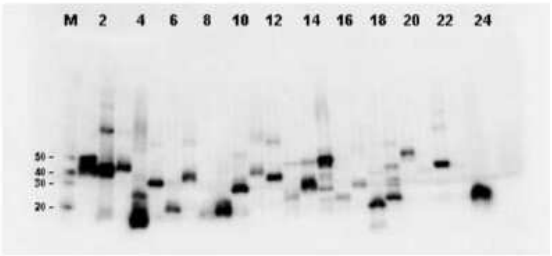
Application Notes	This product has been tested by ELISA and western blot and is optimally suited for monitoring the expression of FLAG(TM) tagged fusion proteins. As such, this antibody can be used to identify fusion proteins containing the FLAG(TM) epitope. The antibody recognizes the epitope tag fused 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. Use in Western Blot and Simple Western reported in a Verified Customer Review. Dilution for use in Flow Cytrometry is user optimized. See Simple Western Antibody Database for Simple Western validation: separated by Size

Images

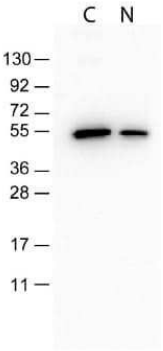
Western Blot: DYKDDDDK Epitope Tag Antibody (29E4.G7) [NBP1-97410] - Use of DYKDDDDK Epitope Tag Antibody (29E4.G7) [NBP1-97410] in Western Blot. Flag expression is significantly increased in 293 cells transfected with a flag-fusion protein. Image from a verified customer review.



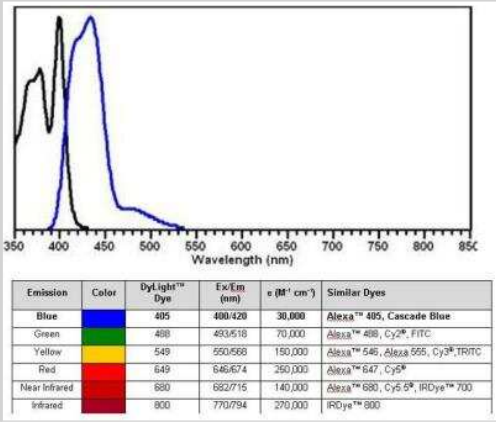
Western Blot: DYKDDDDK Epitope Tag Antibody (29E4.G7) [NBP1-97410] - Twenty-four clones were randomly selected and grown up from glycerol stocks by inoculating 0.5 mL 2X YT medium. Expression of recombinant proteins was induced by the addition of IPTG. Proteins were purified by nickel affinity chromatography and eluted in 40 uL. Samples were diluted 10-fold, transferred to nitrocellulose membrane and blotted using Mab DYKDDDDK Epitope Tag Antibody (29E4.G7) [NBP1-97410].



Western Blot: DYKDDDDK Epitope Tag Antibody (29E4.G7) [NBP1-97410] - Antibody detects both C-terminal linked and N-terminal linked FLAG tagged recombinant proteins.



ELISA: DYKDDDDK Epitope Tag Antibody (29E4.G7) [NBP1-97410] - Detection of DYKDDDDK conjugated proteins using the DyLight 405 conjugated version of DYKDDDDK Epitope Tag Antibody (29E4.G7).



Publications

Zhang T, Cui S, Xiong X et al. PIH1D3-knockout rats exhibit full ciliopathy features and dysfunctional pre-assembly and loading of dynein arms in motile cilia Frontiers in cell and developmental biology 2023-10-12 [PMID: 37900281] (WB)

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Products Related to NBP1-97410-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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