DATASHEET

DYKDDDDK tag Rabbit Monoclonal Antibody(ARA797)

CAT. NO. ARA6584

KEY FEATURES

Target	DYKDDDDK tag	Source / Host	Rabbit
Reactivity	Species independent	Clonality	Monoclonal
Applications	WB,IF/ICC,FC,IP	Conjugation	Unconjugated
Storage	at-20°C		

BACKGROUND

Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged protein's biochemical properties. The DYKDDDDK peptide has been used extensively as a general epitope tag in expression vectors. This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:10000-1:20000
IF/ICC	1:2000-1:10000
FC	1:800-1:2000
IP	1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit Monoclonal Antibody to DYKDDDDK tag
Antibody Type	Primary antibody
Predicted MW	Depending on customers' target of interest
Immunogen	Synthetic peptide: DYKDDDDK conjugated to KLH.
Purification	ProA affinity purified IgG
Form / Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.72%.
Alternative Names	DDDDK epitope tag; DDDDK epitope tag; DYKDDDDK epitope tag;FLAG-tag

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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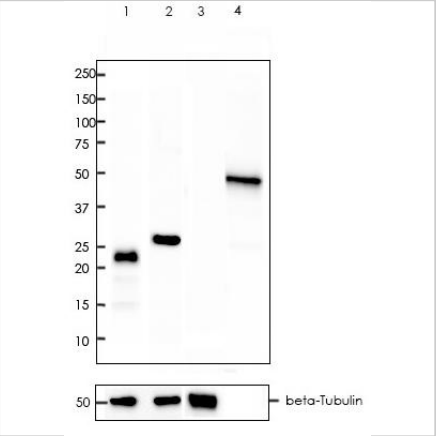
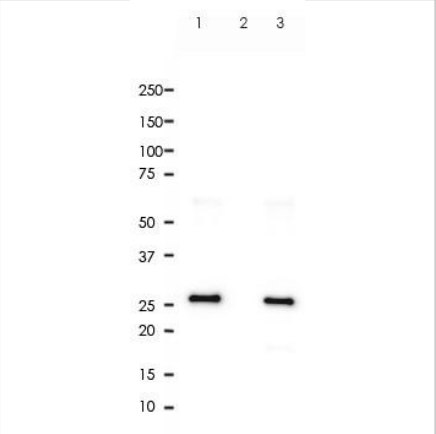
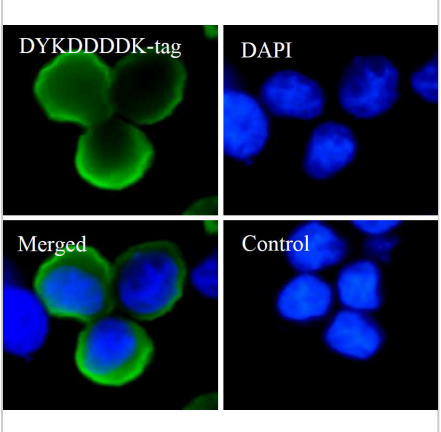


Predicted MW: Depend on fusion protein with DYKDDDDK tag Lane 1: 293 cells lysate transfected with C-terminal DYKDDDDK tagged gene (ARA797 at 1:20,000 dilution). Lane 2: 293 cells lysate transfected with N-terminal DYKDDDDK tagged gene (ARA797 at 1:10,000 dilution). Lane 3: 293 cells lysate without any transfection (ARA797 at 1:2,000 dilution). Lane 4: Multi-tag fusion protein (ARA797 at 1:2,000 dilution) Lane 1/2/3: 3 µg per lane Lane 4: 20 ng per lane 2nd Ab: GAR HRP(H+L) 1:5,000



DYKDDDDK tag was immunoprecipitated from 0.1mg of 293 whole cells lysate transfected with N-terminal DYKDDDDK tagged gene with ARA797 at 1:50 dilution. 2nd Ab: GAR HRP for IP 1:500 Lane 1: ARA797 IP in 293 whole cell lysate transfected with N-terminal DYKDDDDK tagged gene Lane 2: PBS instead of ARA797 in 293 whole cell lysate transfected with N-terminal DYKDDDDK tagged gene Lane 3: 293 whole cell lysate transfected with N-terminal DYKDDDDK tagged gene, 2 µg (input) Exposure: 30s



ARA797 staining DYKDDDDK tag in 293 cells transfected with N-terminal DYKDDDDK tagged gene by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:10,000) at 4°C. An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain. Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).

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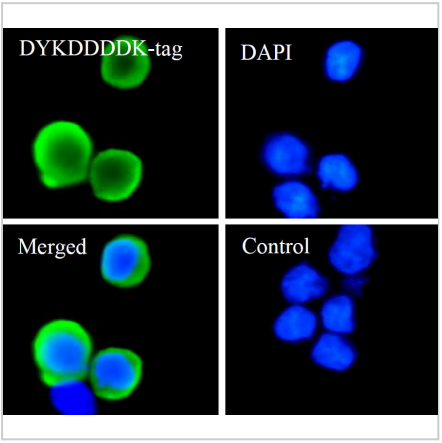
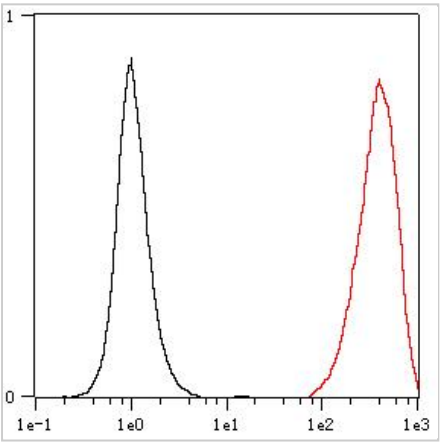


ARA797 staining DYKDDDDK tag in 293 cells transfected with C-terminal DYKDDDDK tagged gene by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:10,000) at 4°C. An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain. Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing 293 cells transfected with N-terminal DYKDDDDK tagged gene stained with ARA797 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (ARA797, 1:2,000 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com