

## OriGene Technologies Inc.

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## OriGene EU

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# Polyclonal Antibody to DYKDDDDK Epitope Tag - DyLight649

Alternate names: D-tag, ECS Epitope Tag, ECS-tag, FLAG Epitope Tag, FLAG-tag

Catalog No.: R1180DL7

Quantity: 0.1 mg

**Concentration:** 1.0 mg/ml (by UV absorbance at 280 nm)

**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 proteins

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.

**Host:** Rabbit

Immunogen: This antibody was purified from whole rabbit serum prepared by repeated immunizations

with the Enterokinase Cleavage Site (ECS) peptide DYKDDDDK (Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys) conjugated to KLH using maleimide. Residues of glycine and cysteine were added to the carboxy terminal end to facilitate coupling. This antibody reacts with FLAG(TM)

conjugated proteins.

Format: State: Lyophilized purified Ig

**Purification:** Affinity chromatography

Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containings

10 mg/ml BSA as stabilizer and 0.01% (w/v) Sodium Azide as preservative

**Label:** DyLight649 – IRDye(TM)649 (MW 1,008.02)

Absorption / Emission: 646 nm / 674 nm

Molar Ratio: 1,8 IRDye(TM)649 per mole of Rabbit IgG

**Reconstitution:** Restore with 0.1 ml of deionized water (or equivalent).

Applications: Western Blot: >1/20,000.

ELISA >1/10,000.

Immunofluorescence: >1/5,000.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

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### R1180DL7: Polyclonal Antibody to DYKDDDDK Epitope Tag - DyLight649

**Specificity:** 

This antibody is directed against the FLAG(TM) motif and is useful in determining its

presence in various assays.

Storage:

Prior to reconstitution store at 2-8°C.

Following reconstitution store the antibody undiluted at 2-8°C for one month

or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:** 

1. Chubet RG, Brizzard BL. Vectors for expression and secretion of FLAG epitope-tagged proteins in mammalian cells. Biotechniques. 1996 Jan; 20(1):136-41. PubMed PMID:

8770418.

2. Slootstra JW, Kuperus D, Plückthun A, Meloen RH. Identification of new tag sequences with differential and selective recognition properties for the anti-FLAG monoclonal antibodies M1, M2 and M5. Mol Divers. 1997;2(3):156-64. PubMed PMID: 9238646.

3. Robeva AS, Woodard R, Luthin DR, Taylor HE, Linden J. Double tagging recombinant A1and A2A-adenosine receptors with hexahistidine and the FLAG epitope. Development of an

efficient generic protein purification procedure. Biochem Pharmacol. 1996 Feb

23;51(4):545-55. PubMed PMID: 8619901.

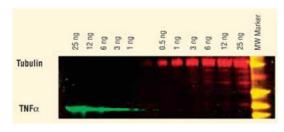
4. Fulton JE, Thacker EL, Bacon LD, Hunt HD. Functional analysis of avian class I (BFIV) glycoproteins by epitope tagging and mutagenesis in vitro. Eur J Immunol. 1995

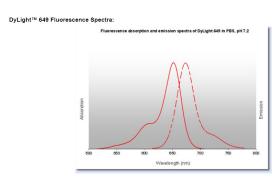
Jul;25(7):2069-76. PubMed PMID: 7621880.

**Pictures:** 

DyLight(TM) dyes can be used for twocolor Western Blot detection with low background and high signal. Anti-tubulin was detected using a DyLight(TM)549 conjugate. Anti-TNFalpha was detected using a DyLight(TM)649 conjugate. The image was captured using the

Typhoon(TM) 9410 Imaging System.





Emission	Color	DyLight™ Dye	Ex/Em (nm)	ε (M <sup>-1</sup> cm <sup>-1</sup> )	Similar Dyes
Green		488	493/518	70,000	Alexa™ 488, Cy2®, FITC
Yellow		549	550/568	150,000	Alexa™ 546, Alexa 555, Cy3®,TRITO
Red		649	646/674	250,000	Alexa™ 647, Cy5®
Near Infrared		680	682/715	140,000	Alexa™ 680, Cy5.5®, IRDye™ 700
Infrared		800	770/794	270,000	IRDye™ 800