

## Alexa Fluor<sup>®</sup> 594 anti-DYKDDDDK Tag Antibody

<b>Catalog# / Size</b>	637313 / 25 µg 637314 / 100 µg
<b>Clone</b>	L5
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	FLAG tag
<b>Isotype</b>	Rat IgG2a, λ
<b>Description</b>	The DYKDDDDK tag, commonly referred to as Sigma <sup>®</sup> 's FLAG <sup>®</sup> Tag, is often used as a protein modification in order to simplify the labeling and detection of proteins. This unique amino acid sequence allows for specific antibody detection in western blotting, immunoprecipitation, and immunostaining techniques. Due to the short sequence, this modification is not likely to affect the structure or function of the modified proteins.

### Product Details

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<b>Verified Reactivity</b>	DYKDDDDK tag epitope
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	DYKDDDDK-tagged mouse Langerin
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ICC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by immunocytochemistry. For immunocytochemistry, a concentration range of 0.2 - 2.0 µg per ml (1:250-1:2500 dilution) recommended. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor<sup>®</sup> 594 has an excitation maximum of 590 nm, and a maximum emission of 617 nm.</p> <p>Alexa Fluor<sup>®</sup> and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Application Notes</b>	The L5 clone has been demonstrated to have 2-8 fold better sensitivity in WB than another commonly used antibody clone, M2.
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Park SH, <i>et al.</i> 2008. <i>J Immunol Methods.</i> 331:27.</li><li>2. Moon SH, <i>et al.</i> 2010. <i>J. Biol Chem.</i> 285:12935. <a href="#">PubMed</a></li><li>3. Sasaki M, <i>et al.</i> 2011. <i>J. Biol Chem.</i> 286:39370. <a href="#">PubMed</a></li><li>4. Sonder SU, <i>et al.</i> 2012. <i>J Immunol.</i> 188:5906. <a href="#">PubMed</a></li><li>5. Jiang Y, <i>et al.</i> 2013. <i>Int Immunol.</i> 25:235. <a href="#">PubMed</a></li><li>6. Zuo X, <i>et al.</i> 2014. <i>PLoS One.</i> 9:84748. <a href="#">PubMed</a></li><li>7. Toyo-Oak K, <i>et al.</i> 2014. <i>J Neurosci.</i> 34:12168. <a href="#">PubMed</a></li></ol>
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Cattin-Ortolá J, <i>et al.</i> 2021. <i>Nat Commun.</i> 12:5333. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2716138 (BioLegend Cat. No. 637313) AB_2810689 (BioLegend Cat. No. 637314)

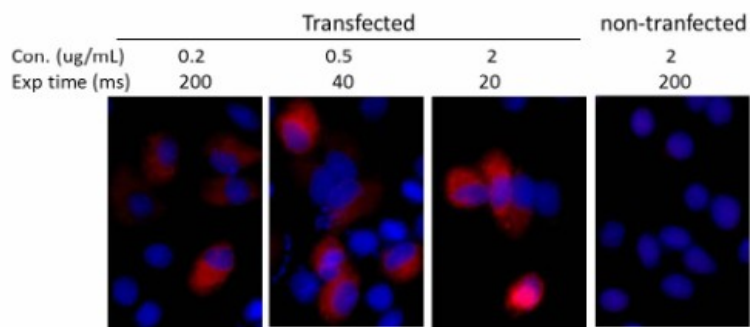
## Antigen Details

<b>Biology Area</b>	Cell Biology
<b>Antigen References</b>	1. Einhauer A. 2001. <i>J. Biochem. Biophys. Methods.</i> 49:455. 2. Knappik A and Pluckthun A. 1994. <i>Biotechniques.</i> 17:754.
<b>Gene ID</b>	NA

## Other Formats

Purified anti-DYKDDDDK Tag, Anti-DYKDDDDK Tag (L5) Affinity Gel, APC anti-DYKDDDDK Tag, PE anti-DYKDDDDK Tag, Direct-Blot™ HRP anti-DYKDDDDK Tag, Alexa Fluor® 594 anti-DYKDDDDK Tag, Alexa Fluor® 647 anti-DYKDDDDK Tag, Alexa Fluor® 488 anti-DYKDDDDK Tag, PE/Cyanine7 anti-DYKDDDDK Tag, Brilliant Violet 421™ anti-DYKDDDDK Tag, PerCP/Cyanine5.5 anti-DYKDDDDK Tag, Ultra-LEAF™ Purified anti-DYKDDDDK Tag, PE/Dazzle™ 594 anti-DYKDDDDK Tag Antibody, TotalSeq™-B1129 anti-DYKDDDDK Tag, TotalSeq™-A1129 anti-DYKDDDDK Tag, TotalSeq™-C1129 anti-DYKDDDDK Tag

## Product Data



HeLa cells transiently transfected with DYKDDDDK tag fused protein or non-transfected were fixed with 4% paraformaldehyde (PFA) for fifteen minutes, permeabilized with 0.5% Triton X-100 for three minutes, and blocked with 5% FBS for 60 minutes. Then the cells were intracellularly stained with 1:250 (2 µg/ml), 1: 1000 (0.5 µg/ml) and 1:2500 diluted (0.2 µg/ml) Alexa Fluor® 594 anti-DYKDDDDK Tag antibody (red). Nuclei were counterstained with DAPI (blue). The image was captured with a 40X objective.

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