

Direct-Blot™ HRP anti-DYKDDDDK Tag Antibody

Catalog# / Size	637312 / 25 µL 637311 / 100 µL
Clone	L5
Regulatory Status	RUO
Other Names	FLAG tag
Isotype	Rat IgG2a, λ
Description	The DYKDDDDK tag, commonly referred to as Sigma®'s FLAG® 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

Verified Reactivity	DYKDDDDK tag epitope
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	DYKDDDDK-tagged mouse Langerin
Formulation	This antibody is provided in 50% glycerol in aqueous buffered solutions with preservatives.
Preparation	The antibody was purified by affinity chromatography and conjugated with HRP under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	Upon receipt, the antibody solution should be stored undiluted at -20°C, and protected from prolonged exposure to light.
Application	WB - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested dilution is 1:1000-1:2000. The optimal dilution should be determined by titration for each individual assay of interest. 25 µl and 100 µl of Direct-Blot™ HRP antibody can be used for approximately 5 and 20 Western blots, respectively, at the recommended concentration/dilution.
Application Notes	The L5 clone has been demonstrated to have 2-8 fold better sensitivity in WB than another commonly used antibody clone, M2.
Application References	<ol style="list-style-type: none">1. Park SH, <i>et al.</i> 2008. <i>J Immunol Methods</i>. 331:27.2. Moon SH, <i>et al.</i> 2010. <i>J. Biol Chem</i>. 285:12935. PubMed3. Sasaki M, <i>et al.</i> 2011. <i>J. Biol Chem</i>. 286:39370. PubMed4. Sonder SU, <i>et al.</i> 2012. <i>J Immunol</i>. 188:5906. PubMed5. Jiang Y, <i>et al.</i> 2013. <i>Int Immunol</i>. 25:235. PubMed6. Zuo X, <i>et al.</i> 2014. <i>PLoS One</i>. 9:84748. PubMed7. Toyo-Oak K, <i>et al.</i> 2014. <i>J Neurosci</i>. 34:12168. PubMed
Product Citations	<ol style="list-style-type: none">1. Zavaliev R, <i>et al.</i> 2020. <i>Cell</i>. 182(5):1093-1108.e18. PubMed2. Taverner WK, <i>et al.</i> 2019. <i>Mol Ther Oncolytics</i>. 0.70625. PubMed3. Qu Y, <i>et al.</i> 2021. <i>Front Cell Dev Biol</i>. 9:716208. PubMed4. Liu Z, <i>et al.</i> 2021. <i>PLoS Pathog</i>. 17:e1010123. PubMed5. Uche UU, <i>et al.</i> 2018. <i>J Exp Med</i>. 215:3165. PubMed6. Greulich W, <i>et al.</i> 2020. <i>Cell</i>. 179(6):1264-1275.e13. PubMed

RRID

AB_2734514 (BioLegend Cat. No. 637312)
AB_2566706 (BioLegend Cat. No. 637311)

Antigen Details

Biology Area

Cell Biology

Antigen References

1. Einhauer A. 2001. *J. Biochem. Biophys. Methods.* 49:455.
2. Knappik A and Pluckthun A. 1994. *Biotechniques.* 17:754.

Gene ID

NA

Related Protocols

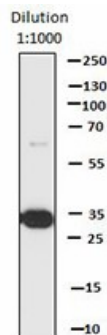
[Direct-Blot™ HRP Antibodies Save You Time - Video](#)

[Direct-Blot™ Western Blotting Protocol](#)

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



50 ng of recombinant GST protein tagged with the DYKDDDDK peptide was resolved by electrophoresis, transferred to a nitrocellulose membrane, and probed with Direct-Blot™ HRP anti-DYKDDDDK tag (clone L5). Proteins were visualized using chemiluminescence detection.

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