

Datasheet for 600-446-384**HA Epitope Tag Antibody DyLight™ 405 Conjugated****Overview**

Description:	Anti-HA Epitope Tag (RABBIT) Antibody DyLight™ 405 Conjugated - 600-446-384
Item No.:	600-446-384
Size:	100 µg
Applications:	IF, Multiplex
Reactivity:	HA-Tag
Host Species:	Rabbit

Product Details

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 biochemical properties of the tagged protein. Most often, sequences encoding the epitope tag are included with the 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. HA tag is frequently incorporated into recombinant proteins for a variety of purposes. An anti-HA antibody can then be used to detect the protein when doing studies with transfected cells.
Synonyms:	Rabbit Anti-HA Epitope Tag Antibody DyLight 405™ Conjugated, Rabbit Anti HA Epitope Tag Antibody DyLight 405™ Conjugated
Host Species:	Rabbit
Conjugate:	DyLight™ 405
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	2.9

Target Details

Reactivity:	HA-Tag
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Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 114-122 (Y-P-Y-D-V-P-D-Y-A-G) of hemagglutinin influenza conjugated to KLH using maleimide.
Purity/Specificity:	This affinity purified antibody is directed against the HA epitope tag and is useful in determining its presence in over expressed proteins in various assays. The antibody recognizes the HA epitope tag (Tyr-Pro-Tyr-Asp-Val-Pro-Asp-Tyr-Ala-Gly) fused to either the amino- or carboxy-termini of targeted proteins in transfected or transformed cells.

Application Details

Suggested Applications:	IF, Multiplex (Based on references)
Application Note:	Anti-HA Epitope Tag DyLight 405 Antibody is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FLISA:	>1:20,000
IF:	>1:5,000
WB:	1:10,000-1:25,000

Formulation

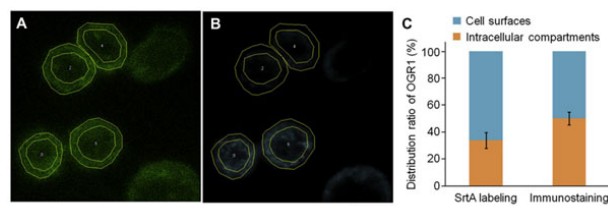
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

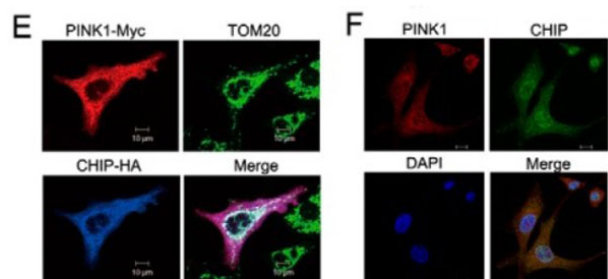
Immunofluorescence double staining using Anti-HA Epitope Tag Antibody DyLight™405 Conjugated.

Intracellular distribution of tagged OGR1 visualized by sortase A-mediated pulse labeling and immunostaining. (A) Fluorescent images of the tagged OGR1 enzymatically labeled with an Alexa Fluor 488-modified peptide (green) and (B) immunostained with a DyLight 405-conjugated anti-HA-antibody (blue), obtained with a confocal microscope at the mildly acidic extracellular pH 6.6. The original fluorescence intensities of the labeled and immunostained cells were subtracted with the mean intensities of the green and blue autofluorescence of the intact cells, respectively. The yellow lines represent the outlines of the whole cells and the intracellular regions. Scale bar: 10 mm. (C) Distribution ratio of the labeled and immunostained OGR1 between the cell surface and the intracellular compartments obtained by image analysis of panels A and B. The color bars represent the mean ratio from four cells, and the error bars represent the S.D. FIG. 3. PMID: 29655915.

Immunofluorescence Microscopy

Immunofluorescence of Anti-HA Epitope Tag Antibody DyLight™405 Conjugated.

(E) representative confocal images of immunostaining of a SH-SY5Y cell expressing both Myc-PINK1 (red) and HA-CHIP (blue). Mitochondria were stained with TOM20 (green). (F) SH-SY5Y cells were treated for 6 h with 10 μm MG132 before fixation. Representative confocal images of immunostaining using endogenous PINK1 (red) and endogenous CHIP (green). Nuclei were counterstained with DAPI (blue). Scale bars, 10 μm. Figure 1. PMID: 29242192.

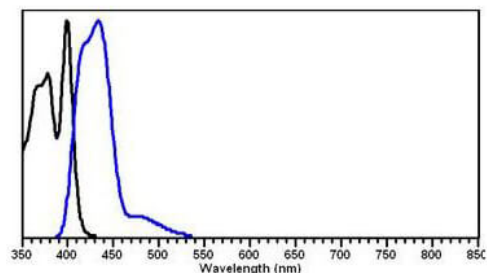


Emission	Color	DyLight™ Dye	Ex/Em (nm)	ϵ (M ⁻¹ cm ⁻¹)	Similar Dyes
Blue		405	400/420	30,000	Alexa™ 405, Cascade Blue
Green		488	493/518	70,000	Alexa™ 488, Cy2®, FITC
Yellow		549	550/568	150,000	Alexa™ 546, Alexa 555, Cy3®, TRITC
Red		649	646/674	250,000	Alexa™ 647, Cy5®
Near Infrared		680	682/715	140,000	Alexa™ 680, Cy5.5®, IRI dye™ 700
Infrared		800	770/794	270,000	IR dye™ 800

Diagram

Properties of DyLight™ Fluorescent Dyes.

Diagram



References

- Yoo L et al. The ubiquitin E3 ligase CHIP promotes proteasomal degradation of the serine/threonine protein kinase PINK1 during staurosporine-induced cell death. *J Biol Chem.* (2018)
- Tan M et al. Real-time monitoring of pH-dependent intracellular trafficking of ovarian cancer G protein-coupled receptor 1 in living leukocytes. *J Biosci Bioeng.* (2018)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.