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Datasheet for 600-401-H22

# Strep-tag II Antibody

## Overview

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| **Description:** | Anti-Strep-tag II (RABBIT) Antibody - 600-401-H22 |
| **Item No.:** | 600-401-H22 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, WB |
| **Reactivity:** | Strep-Tag II |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | Strep-tag II antibody detects amino acid sequence specific for Streptavidin. Streptavidin is a tetrameric protein purified from Streptomyces avidinii. It has wide use in numerous molecular biological protocols dues to its strong affinity for biotin. The original Strep-tag is a nine amino acid peptide with high specificity and affinity towards streptavidin. The addition of this tag to the C-terminus of recombinant proteins allowed the simple purification of protein by use of affinity columns. It was re-engineered (and re-named Strep-tag II) to allow it to also placed at the N-terminus of recombinant proteins. Anti-Strep-tag II antibodies are ideal for investigators involved in GFP and Epitopes research. |
| **Synonyms:** | Strep-tag II (NT), StrepII-tag |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Reactivity:** | Strep-Tag II |
| **Immunogen Type:** | Other |
| **Immunogen:** | Strep-tag II Antibody was produced from whole rabbit serum prepared by repeated immunizations with the amino acid sequence "asWSHPQFEKga”. |

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| **Purity/Specificity:** | Anti-Strep-tag II Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with Strep-tag II with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Strep-tag II from other sources has not been determined. This antibody recognizes the amino acid sequence fused to n-terminus "asWSHPQFEKga". |
| **Relevant Links:** | • NCBI - NP_065911<br>• UniProtKB - Q9P246<br>• GeneID - 57620 |

## Application Details

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| **Tested Applications:** | ELISA, WB |
| **Application Note:** | Anti-Strep-tag II Antibody is tested for use in E and WB. Specific conditions for reactivity should be optimized by the end user. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **WB:** | 0.5-1 ug/mL |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **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:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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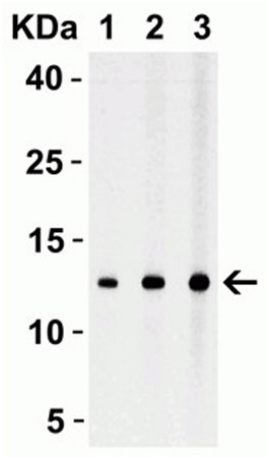
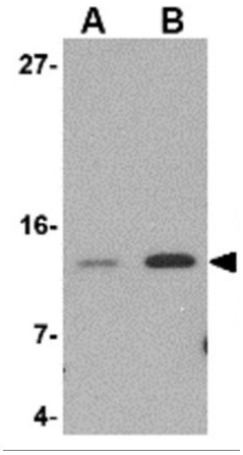
| **Shipping Condition:** | Wet Ice |
| **Storage Condition:** | Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images




**Western Blot**
Western Blot with Anti-Strep-tag II.
Load: Loading: 30 ng of Strep-tag II recombinant protein per lane.
Primary antibody: Anti-Strep-tag II at (Lane 1: 0.25 µg/mL Lane 2: 0.5 µg/mL Lane 3: 1 µg/mL) for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.




**Western Blot**
Western Blot with Anti-Strep-tag II.
Load: Strep-tag II recombinant protein, Lane A: 5 ng and Lane B: 25 ng.
Primary antibody: Anti-Strep-tag II at 1 µg/mL for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

## References


- Arsiwala A et al. Nanopatterning protein antigens to refocus the immune response. *Nanoscale.* (2019)


## Disclaimer

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