Human AU1 Epitope Tag Antibody

Monoclonal Mouse IgG_{2B} Clone # 1115108

Catalog Number: MAB11843

DESCRIPTION

Species Reactivity	Human
Specificity	Detects AU1 Epitope Tag in Direct ELISA.
Source	Monoclonal Mouse IgG_{2B} Clone # 1115108
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	AU1 epitope tag peptide
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

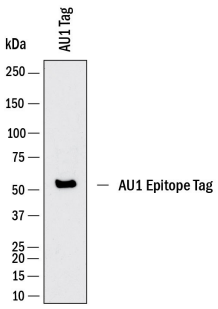
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	AU1 Epitope Tag protein
Simple Western	2-10 µg/mL	AU1 Epitope Tag protein

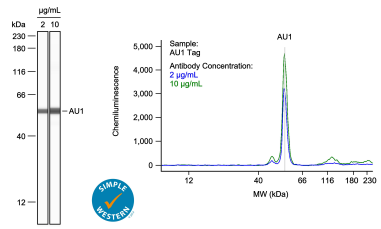
DATA

Western Blot



Detection of Human AU1 Epitope Tag by Western Blot. Western Blot shows lysates of AU1 Epitope Tag protein. PVDF membrane was probed with 2 µg/ml of Mouse Anti-Human AU1 Epitope Tag Monoclonal Antibody (Catalog # MAB11843) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for AU1 Epitope Tag at approximately 56 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Simple Western



Detection of Human AU1 Epitope Tag by Simple Western™. Simple Western lane view shows lysates of AU1 Epitope Tag protein, loaded at 0.5 mg/ml. A specific band was detected for AU1 Epitope Tag at approximately 56 kDa (as indicated) using both 2 µg/ml and 10 µg/ml of Mouse Anti-Human AU1 Epitope Tag Monoclonal Antibody (Catalog # MAB11843) followed by HRP-conjugated Goat Anti-Mouse Secondary Antibody (Catalog # 042-205). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Simple Western electropherogram showing the same Mouse Anti-Human AU1 Epitope Tag Monoclonal Antibody (Catalog # MAB11843) tested at 2 µg/ml (blue line) and 10 µg/ml (green line) in the AU1 Epitope Tag protein.

PREPARATION AND STORAGE

Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

The AU1 epitope is a small synthetic peptide comprising the amino acid sequence DTYRYI, often utilized as an epitope tag in molecular and cell biology research. Epitope tags like AU1 are invaluable tools for the detection, purification, and characterization of proteins of interest through the use of specific antibodies. The AU1 tag is distinguished by its small size, which minimizes interference with the biological function, folding, or localization of tagged proteins. It is particularly useful in applications requiring high specificity and is frequently employed in assays such as western blotting, immunoprecipitation, and immunofluorescence. The anti-AU1 antibody binds the tag with high affinity, enabling the effective detection of AU1-tagged proteins expressed in various biological systems. This versatility makes the AU1 epitope a robust and reliable choice for experimental workflows in molecular biology and biotechnology. While synthetic in nature, epitope tags like AU1 share conceptual parallels with native epitopes, further underscoring their contribution to advancing the precision and efficiency of modern research methodologies.

References:

1. Jarvik JW, Telmer CA. Epitope tagging. Annu Rev Genet. 1998;32:601-18. doi: 10.1146/annurev.genet.32.1.601. PMID: 9928493.
2. Field J, Nikawa J, Broek D, MacDonald B, Rodgers L, Wilson IA, Lerner RA, Wigler M. Purification of a RAS-responsive adenylyl cyclase complex from Saccharomyces cerevisiae by use of an epitope addition method. Mol Cell Biol. 1988 May;8(5):2159-65. doi: 10.1128/mcb.8.5.2159-2165.1988. PMID: 2455217; PMCID: PMC363397.
3. Shevtsova Z, Malik JM, Michel U, Schöll U, Bähr M, Kügler S. Evaluation of epitope tags for protein detection after *in vivo* CNS gene transfer. Eur J Neurosci. 2006 Apr;23(8):1961-9.

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