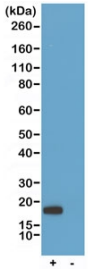
Recombinant His-Tag Chimeric Human Antibody [clone RMH01] (R20303)

Catalog No.	Formulation	Size
R20303-100UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ug

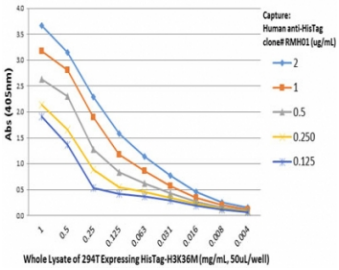
Recombinant RABBIT MONOCLONAL

Bulk quote request

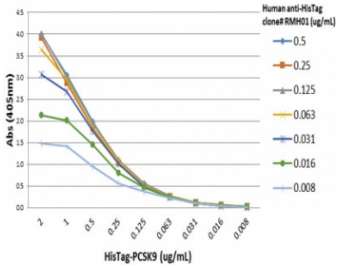
Availability	1-3 business days
Species Reactivity	Species independent
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RMH01
Purity	Protein A purified from animal origin-free supernatant
UniProt	N/A
Applications	ELISA (Capture): 0. 1 ug/ml-2 ug/ml ELISA (Detect): 0.01 ug/ml-0.5 ug/ml Western Blot: 0.1 ug/ml-1 ug/ml
Limitations	This Recombinant His-Tag Chimeric Human Antibody is available for research use only.



Recombinant His-Tag Chimeric Human Antibody Human HEK293 Cell WB. Western blot analysis was performed using lysates from human HEK293 cells transfected (+) or untransfected (-) with a DNA construct encoding a His-tagged Histone H3 protein. Recombinant His-Tag Chimeric Human Antibody clone RMH01 was used at 0.2 ug/mL, followed by an anti-human IgG secondary antibody for detection. A distinct immunoreactive band corresponding to the His-tagged Histone H3 protein is detected only in the transfected sample, while the untransfected control shows no detectable signal. These results demonstrate that Recombinant His-Tag Chimeric Human Antibody specifically detects His-tagged recombinant proteins and is fully compatible with standard anti-human IgG secondary antibody detection systems.



Recombinant His-Tag Chimeric Human Antibody Sandwich ELISA. A sandwich ELISA was performed using Recombinant His-Tag Chimeric Human Antibody clone RMH01 as the capture antibody at concentrations ranging from 0.125-2 ug/mL. Whole lysates from HEK293T cells expressing His-tagged Histone H3 K36M were added as the antigen, followed by an anti-Histone H3 antibody for detection. Absorbance was measured at 405 nm. Increasing concentrations of the capture antibody produced correspondingly stronger ELISA signals, demonstrating efficient capture of the His-tagged recombinant protein over a broad concentration range. These results show that Recombinant His-Tag Chimeric Human Antibody is well suited for sandwich ELISA applications using anti-human IgG-compatible detection systems.



Recombinant His-Tag Chimeric Human Antibody ELISA. A titration ELISA was performed using PCSK9-His recombinant protein immobilized on the plate. Recombinant His-Tag Chimeric Human Antibody clone RMH01 was applied as the primary detection antibody at concentrations ranging from 0.008-0.5 ug/mL, followed by an HRP-conjugated anti-human IgG secondary antibody. Absorbance was measured at 405 nm. The antibody demonstrates strong, concentration-dependent binding to the His-tagged recombinant protein, with signal intensity decreasing predictably as both antigen and antibody concentrations are reduced. These results demonstrate that Recombinant His-Tag Chimeric Human Antibody provides sensitive and specific detection of His-tagged recombinant proteins in ELISA using standard anti-human IgG detection systems.

Description

Recombinant His-Tag Chimeric Human Antibody is a recombinant rabbit-human chimeric monoclonal antibody developed for the highly specific detection of recombinant proteins containing a polyhistidine tag. Clone RMH01 was engineered by combining the antigen-binding variable regions of rabbit monoclonal clone RM146 with the constant region of human IgG1, producing a chimeric antibody that retains the excellent affinity and specificity of the original rabbit antibody while being recognized exclusively by anti-human IgG secondary antibodies. This unique design makes the antibody particularly valuable for assay development, secondary antibody validation, and experimental systems requiring a human IgG primary antibody. NSJ Bioreagents supplies this reagent for research use only.

Recombinant His-Tag Chimeric Human Antibody recognizes recombinant proteins containing either a 6xHis tag or a 10xHis tag positioned at the amino terminus or the carboxy terminus of the target protein. The immunogen consisted of a mixture of peptides containing amino-terminal and carboxy-terminal 6xHis sequences, allowing clone RMH01 to recognize the His tag regardless of its orientation on the recombinant protein. Importantly, the antibody shows no detectable cross-reactivity with endogenous mammalian or bacterial proteins, providing highly selective detection of His-tagged recombinant proteins expressed in bacterial, yeast, insect, or mammalian expression systems.

Because the antibody carries a human IgG1 constant region, Recombinant His-Tag Chimeric Human Antibody is detected using anti-human IgG secondary antibodies rather than anti-rabbit reagents. This property is especially useful when evaluating human-specific secondary antibodies, developing multiplex immunoassays that require species separation, or establishing experimental controls for human antibody detection systems. The recombinant chimeric format also provides excellent lot-to-lot consistency while preserving the high affinity and specificity characteristic of rabbit monoclonal antibodies, making clone RMH01 a dependable reagent for reproducible research.

Whether confirming recombinant protein expression, validating protein purification, detecting His-tagged fusion proteins, or developing assays that require a human IgG primary antibody, Recombinant His-Tag Chimeric Human Antibody offers reliable and highly specific recognition of polyhistidine-tagged proteins. Researchers seeking a conventional rabbit monoclonal version of the same specificity can also explore our His Tag Antibody / Polyhistidine Tag Antibody page featuring the parent clone RM146 for general recombinant protein detection applications.

To learn more about detecting His-tagged recombinant proteins, explore our His Tag Antibody / Polyhistidine Tag

Antibody page featuring recombinant rabbit monoclonal clone RM146.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Recombinant His-Tag Chimeric Human Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. Because the antibody carries a human IgG1 constant region, Recombinant His-Tag Chimeric Human Antibody is detected using anti-human IgG secondary antibodies rather than anti-rabbit reagents.

Immunogen

A mixture of a peptides with 6xHis-Tag at the N-terminus and peptides with 6xHis-Tag at the C-terminus was used as the immunogen for the Recombinant His-Tag Chimeric Human Antibody.

Storage

Store the Recombinant His-Tag Chimeric Human Antibody at -20oC.

Alternate Names

Human Chimeric His Tag antibody, Human Chimeric Polyhistidine Tag antibody, Human IgG His Tag antibody, Chimeric Histidine Tag antibody, Recombinant Human Chimeric His6 Tag antibody, Recombinant Human Chimeric 6xHis Tag antibody, Recombinant Human Chimeric 10xHis Tag antibody, Human Chimeric His Epitope Tag antibody

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