

GCN4 recombinant antibody

Anti-GCN4 [C11L34]

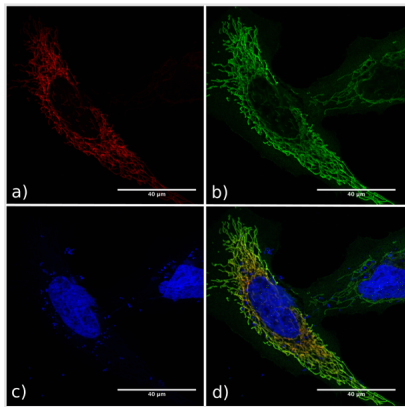
CATALOG # AAA72034	REACTIVITY S. cerevisiae	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

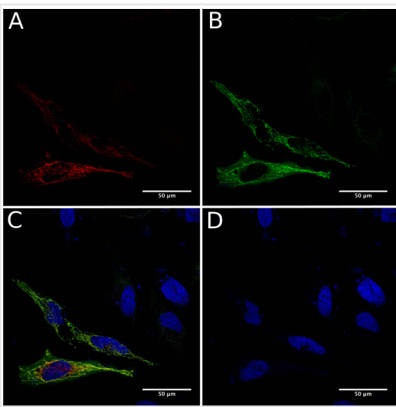
GCN4; Monoclonal Recombinant Antibody; Anti-GCN4 [C11L34]; General Control Protein 4; GCN4 recombinant antibody

PRODUCT SPECIFICATIONS

Reactivity	S. cerevisiae
Clonality	Monoclonal
Isotype	Mouse IgG1 lambda
Clone Number	C11L34
Specificity	This antibody binds to the HLENEVARLKK peptide from the leucine-zipper domain of the S. cerevisiae GCN4 transcriptional activator with picomolar affinity.
Purity/Purification	Protein A Affinity Purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Sequence Length	281
Applicable Applications for GCN4 recombinant antibody	IP (Immunoprecipitation), SPR (Surface Plasmon Resonance), WB (Western Blot)
Antibody Type	Recombinant Antibody
Antibody Species	Mouse
Original Species Name	Mouse
Immunogen	Biotinylated GCN4-peptide (HLENEVARLKK).
Chimeric Use Statement	This full-length, reformatted mouse antibody was made using the variable domain sequences of the original Mouse scFv format, for improved compatibility with existing reagents, assays and techniques.
Clone Note	This antibody binds to the GCN4-leucine zipper peptide, which is part of the dimerisation- and DNA-binding domain of the transcriptional activator GCN4 in S. cerevisiae.
Buffer Composition	PBS only with 0.02% Proclin 300.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



IF (Immunofluorescence)
Immunofluorescence staining of fixed HeLa cells expressing mCherry tagged GCN4 with anti-GCN4 antibody C11L34. Immunofluorescence analysis of fixed HeLa cells stained with the chimeric mouse IgG1 version of C11L34 (AAA72034) followed by an Alexa Fluor 488 secondary antibody, showing mitochondrial staining. Colocalisation with mCherry tagged GCN4 demonstrates the very low off target/non-specific binding of this antibody. The nuclear and mitochondrial DNA stain is DAPI (blue). Panels show; a) mCherry tagged, mitochondrially targetted GCN4, b) AAA72034 with Alexa Fluor 488 secondary antibody, c) DNA stained with DAPI, d) Merged channels. Images courtesy of Luming Chen (Kim Orth lab, UT Southwestern Medical Center).



IF (Immunofluorescence)
Immunofluorescence staining of fixed HeLa cells expressing mCherry tagged GCN4 with anti-GCN4 antibody C11L34. Immunofluorescence analysis of fixed HeLa cells stained with the chimeric rabbit IgG version of C11L34 followed by an Alexa Fluor 488 secondary antibody, showing mitochondrial staining. Colocalisation with mCherry tagged GCN4 demonstrates the very low off target/non-specific binding of this antibody. The nuclear and mitochondrial DNA stain is hoechst (blue). Panels show; a) mCherry tagged, mitochondrially targetted GCN4, b) with Alexa Fluor 488 secondary antibody, c) DNA stained with hoechst, d) Merged channels. Images courtesy of Luming Chen (Kim Orth lab, UT Southwestern Medical Center).

ADDITIONAL INFORMATION

Related Product Information for GCN4 recombinant antibody	Recombinant monoclonal antibody to GCN4. Manufactured using the recombinant platform with variable regions (i.e. specificity) from the scFv C11L34.
Product Categories/Family for GCN4 recombinant antibody	Genetics; Structural Biology; Epitope Tag
References	Zahnd et al. Directed in vitro evolution and crystallographic analysis of a peptide-binding single chain antibody fragment (scFv) with low picomolar affinity. Journal of Biological Chemistry 2004; 279(18):18870-18877 PMID:14754898 Original Published Journal: Journal of Biological Chemistry 2004; 279(18):18870-18877 Original Published Journal: Journal of Biological Chemistry 2004; 279(18):18870-18877 Publication Note: Describes the generation of an scFv with high affinity using directed evolution.

NCBI AND UNIPROT INFORMATION

NCBI GI #	398364285
NCBI GeneID	856709
NCBI Accession #	NP_010907.3
NCBI GenBank Nucleotide #	NP_010907.3
UniProt Accession #	P03069
NCBI Official Full Name	amino acid starvation-responsive transcription factor GCN4
NCBI Official Symbol	GCN4
NCBI Official Synonym Symbols	AAS101; AAS3; ARG9
NCBI Protein Information	amino acid starvation-responsive transcription factor GCN4
UniProt Protein Name	General control protein GCN4
UniProt Gene Name	GCN4
UniProt Synonym Gene Names	AAS3; ARG9

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/gcn4-recombinant-antibody-clone-c11134-immunoprecipitation-surface-plasmon-resonance-western-blot-elisa/72034>