Anti-DLVPR (G196) epitope-tag monoclonal antibody

Category	tag antibody
Catalog No.	R-G-001
Applications	WB, IP, ChIP, IF

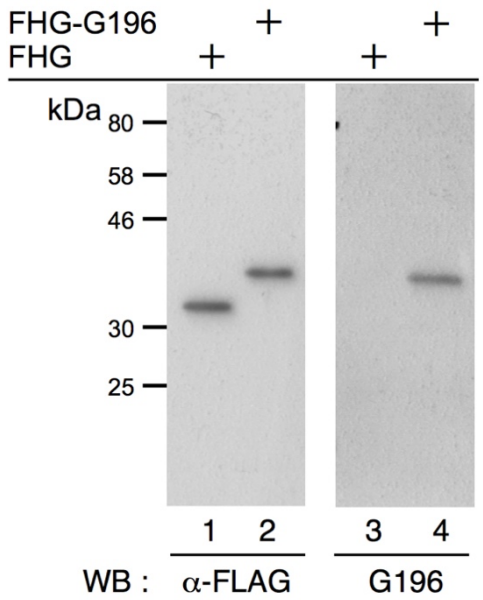
Product information

Source	Mouse
Clone No.	G196
Epitope	Five amino acid sequence Asp-Leu-Val-Pro-Arg (DLVPR)
Isotype	IgG1
Purification method	DEAE ion-exchange purification
Lot No.	001
Concentration	1.0 mg/mL
Buffer	50% glycerol/PBS, pH7.4, with 0.05% ProClin 300
Storage	Store at -20°C.

Recommended dilutions

WB	1:2000 – 1:10000
IP	1:200 – 1:500
ChIP	1:200 – 1:500
IF	1:200 – 1:500

Western Blot



Western blot analysis of FLAG-HA-GFP (FHG) tagged with C-terminal G196-tag in HeLa cells using mAb G196 (Catalog # R-G-001).

HeLa cells were transfected with FHG/pcDNA3 or FHG-G196/pcDNA3. The cells were lysed and subjected to Western blotting (WB) with anti-FLAG (M2) or G196 mAbs.

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Driving Innovation in Antibody Development

The company, mAbProtein,
has been established to help patients, doctors, and researchers.

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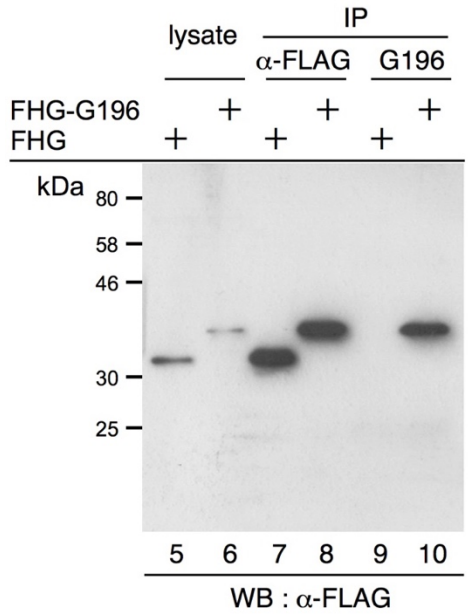
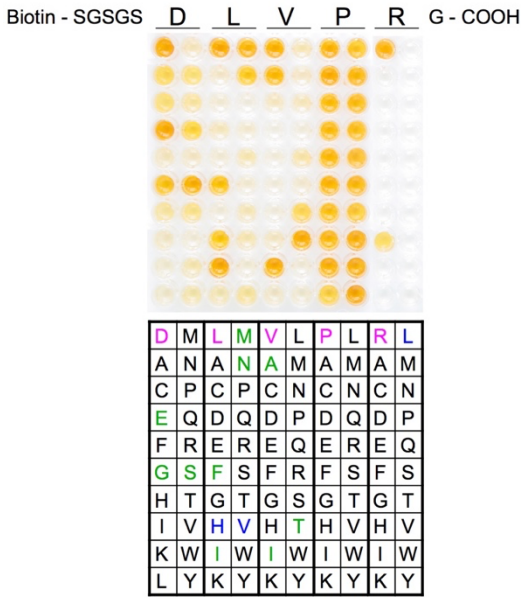
Immunoprecipitation

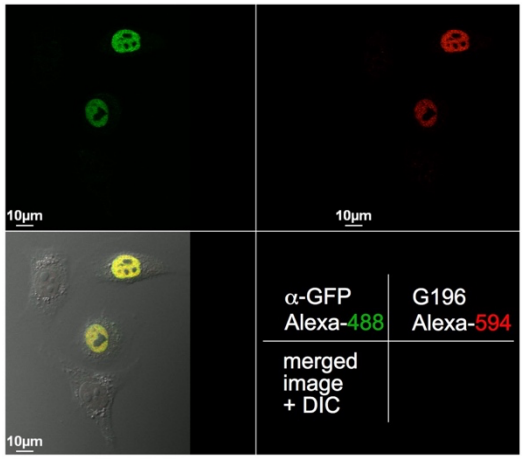


Anti-FLAG is a registered trademark of Sigma-Aldrich Biotechnology.

Permutation ELISA



Immunofluorescence



Alexa Fluor is a registered trademark of Life Technologies Corporation.

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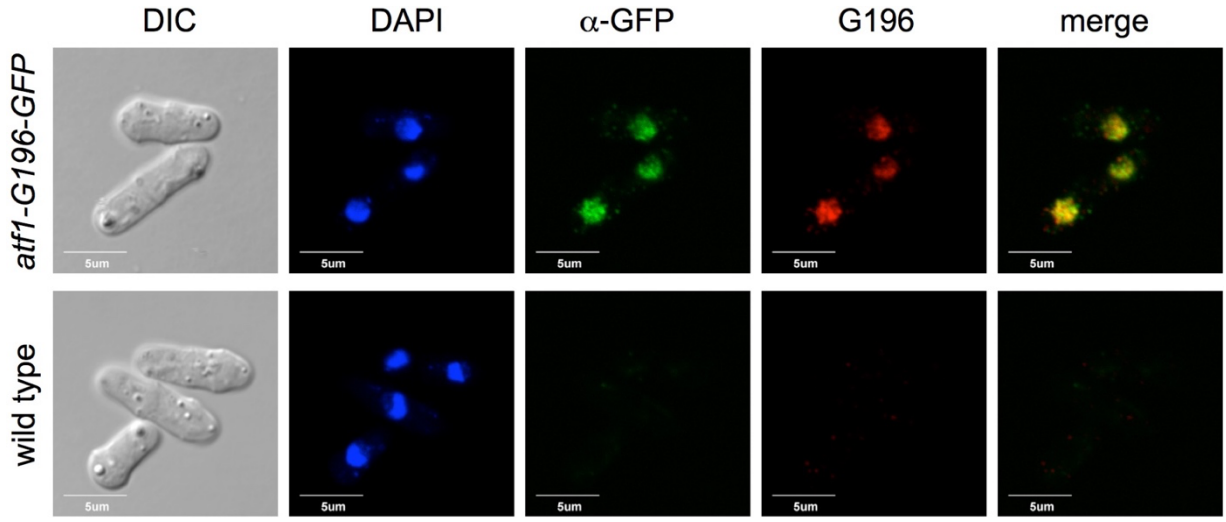
Immunofluorescence



Background

mAb G196/G196-epitope peptide (five amino acid sequence Asp-Leu-Val-Pro-Arg, DLVPR) is a new peptide tagging system for cell biology and biochemistry research. The recognition specificity of monoclonal antibodies (mAbs) has made mAbs among the most frequently used tools in both basic science research and in clinical diagnosis and therapies. Precise determination of the epitope allows the development of epitope tag systems to be used with recombinant proteins for various purposes. A new family of tag was derived from the epitope recognized by a highly specific mAb G196. The minimal epitope was the five amino acid sequence Asp-Leu-Val-Pro-Arg. Isothermal titration calorimetry revealed the high affinity (Kd = 1.25 nM) of the mAb G196/G196-epitope peptide interaction, and G196-tag was used to detect several recombinant cytosolic and nuclear proteins in human and yeast cells.

References for G196 monoclonal antibody (R-G-001)

PMID:	28266535	Journal:	Scientific Reports
Application:	WB, IF, IP, ChIP	IF (2020):	4.380
Title:	G196 epitope tag system: a novel monoclonal antibody, G196, recognizes the small, soluble peptide DLVPR with high affinity.		

PMID:	30615852	Journal:	Arch Biochem Biophys
Application:	WB, IP, IF	IF (2020):	4.013
Title:	Generation and characterization of antagonistic anti-human interleukin (IL)-18 monoclonal antibodies with high affinity: Two types of monoclonal antibodies against full-length IL-18 and the neoepitope of inflammatory caspase-cleaved active IL-18.		

PMID:	29866182	Journal:	Epigenetics Chromatin
Application:	IP	IF (2020):	4.185
Title:	RNAi-dependent heterochromatin assembly in fission yeast Schizosaccharomyces pombe requires heat-shock molecular chaperones Hsp90 and Mas5.		

PMID:	29507312	Journal:	Scientific Reports
Application:	WB, IP	IF (2020):	4.380
Title:	Analysis of the oligomeric states of nucleophosmin using size exclusion chromatography.		

PMID:	24794433	Journal:	Cell Reports
Application:	IF	IF (2020):	9.423
Title:	TRIM27/MRTF-B-dependent integrin β1 expression defines leading cells in cancer cell collectives.		

PMID:	27647735	Journal:	Genes to Cells
Application:	WB	IF (2020):	1.891
Title:	Four domains of Ada1 form a heterochromatin boundary through different mechanisms.		

PMID:	24307402	Journal:	The Journal of Biochemistry
Application:	WB	IF (2020):	3.387
Title:	The N-terminus and Tudor domains of Sgf29 are important for its heterochromatin boundary formation function.		

PMID:	23819448	Journal:	Genes to Cells
Application:	WB	IF (2020):	1.891
Title:	C-terminus of the Sgf73 subunit of SAGA and SLIK is important for retention in the larger complex and for heterochromatin boundary function.		