

## Anti-DLVPR (G196) epitope-tag monoclonal antibody

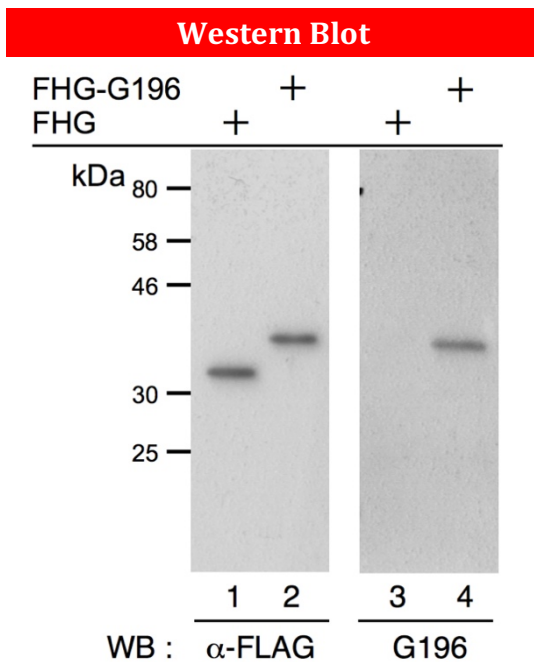
<b>Category</b>	tag antibody
<b>Catalog No.</b>	R-G-001
<b>Applications</b>	WB, IP, ChIP, IF

### Product information

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

### Recommended dilutions

<b>WB</b>	1:2000 – 1:10000
<b>IP</b>	1:200 – 1:500
<b>ChIP</b>	1:200 – 1:500
<b>IF</b>	1:200 – 1:500

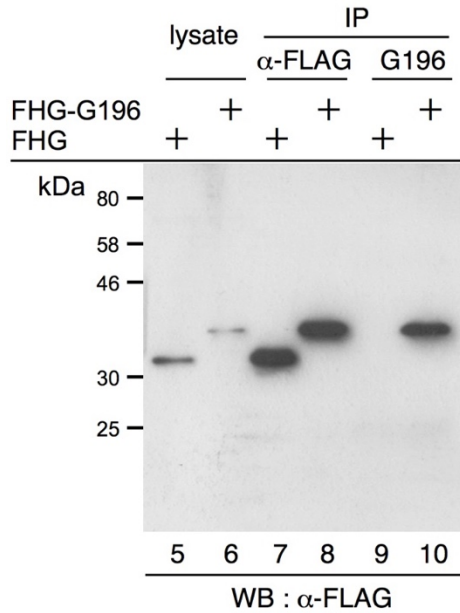


### Western blot analysis of FLAG-HA-GFP (FHG) tagged with C-terminal G196-tag in HeLa cells using mAb G196 (Catalog # R-G-001).

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.

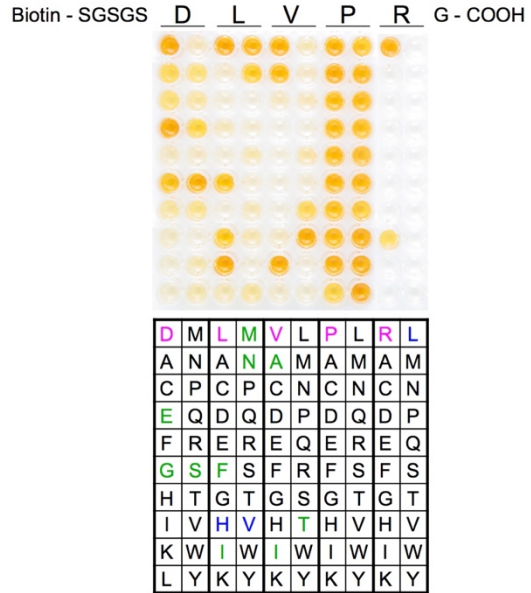
Anti-FLAG is a registered trademark of Sigma-Aldrich Biotechnology.

## Immunoprecipitation

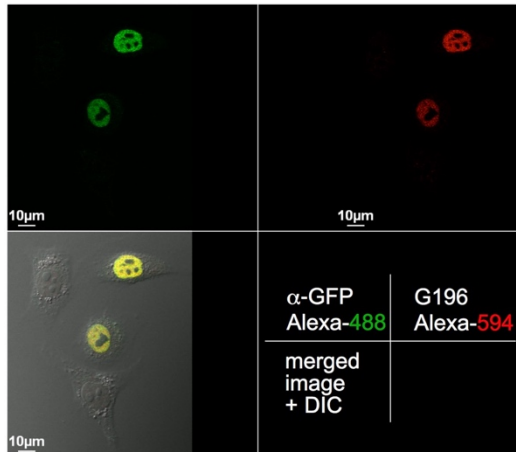


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## Permutation ELISA

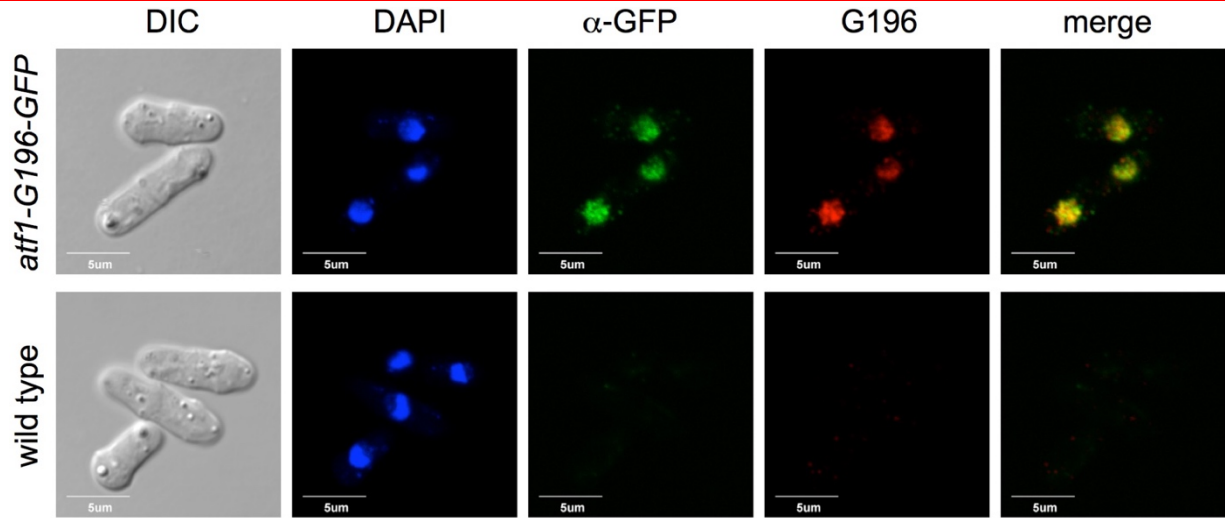


## Immunofluorescence



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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 ( $K_d = 1.25 \text{ nM}$ ) 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 (2017):	4.122
Title:	G196 epitope tag system: a novel monoclonal antibody, G196, recognizes the small, soluble peptide DLVPR with high affinity.		

PMID:	24794433	Journal:	Cell Reports
Application:	IF	IF (2017):	8.032
Title:	TRIM27/MRTF-B-dependent integrin $\beta 1$ expression defines leading cells in cancer cell collectives.		

PMID:	27647735	Journal:	Gens to Cells
Application:	WB	IF (2017):	2.048
Title:	Four domains of Ada1 form a heterochromatin boundary through different mechanisms.		

## Driving Innovation in Antibody Development

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



**mAb  
Protein**

mAbProtein Co., Ltd.

PMID:	24307402	Journal:	The Journal of Biochemistry
Application:	WB	IF (2017):	2.350
Title:	The N-terminus and Tudor domains of Sgf29 are important for its heterochromatin boundary formation function.		

PMID:	23819448	Journal:	Gens to Cells
Application:	WB	IF (2017):	2.048
Title:	C-terminus of the Sgf73 subunit of SAGA and SLIK is important for retention in the larger complex and for heterochromatin boundary function.		