

Reagents to Support HuCAL[®] Assay Development

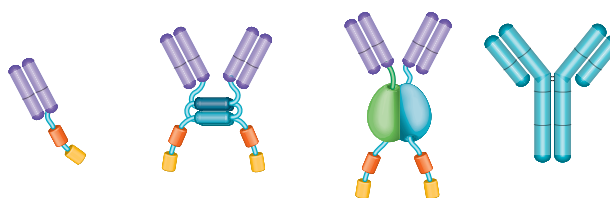
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HuCAL Fab and immunoglobulin (Ig) antibodies are suitable for use in a diverse range of immunoassays. Typical applications include ELISA, flow cytometry, immunofluorescence, immunohistochemistry, and Western blotting, as well as various functional assays.

This guide provides a compilation of reagents that have been tested and qualified in-house for use with HuCAL antibodies.

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1. Anti-human secondary antibodies
2. HuCAL positive control antibodies
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Suggested protocols, examples, and procedures, as well as a detailed discussion of our recombinant antibody technology can be found in our HuCAL Antibodies Technical Manual or by visiting bio-rad-antibodies.com/HuCAL.

1. Anti-human secondary antibodies

HuCAL antibodies in Fab format can be detected by the goat anti-human Fab antibodies shown below. HuCAL antibodies in Ig format can be detected in addition by secondary antibodies specific for the corresponding antibody Fc domain.

Host and Specificity	Catalog Number
Goat anti-human F(ab') ₂	STAR126
Goat anti-human F(ab') ₂ , HRP	STAR126P
Goat anti-human F(ab') ₂ , AP	STAR126A
Goat anti-human F(ab') ₂ , Biotin	STAR126B
Goat anti-human F(ab') ₂ , FITC	STAR126F
Goat anti-human F(ab') ₂ , TRITC	STAR126TRC
Goat anti-human (H + L), F(ab') ₂ fragment, RPE	STAR97PE
Goat anti-human kappa light chain	STAR127
Goat anti-human kappa light chain, HRP	STAR127P
Goat anti-human kappa light chain, FITC	STAR127F
Goat anti-human kappa light chain, F(ab') ₂ fragment	STAR128
Goat anti-human kappa light chain, HRP F(ab') ₂ fragment	STAR128P
Goat anti-human kappa light chain, RPE F(ab') ₂ fragment	STAR128PE
Goat anti-human lambda light chain	STAR129
Goat anti-human lambda light chain, HRP	STAR129P
Goat anti-human lambda light chain, FITC	STAR129F
Mouse anti-human IgG, Fc specific	MCA647G
Mouse anti-human IgG, Fc specific, HRP	MCA647P
Mouse anti-human IgG, Fc specific, FITC	MCA647F

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2. HuCAL positive control antibodies

Specificity	Catalog Number	Format ¹	Applications ²
anti-human CD81	HCA086	Fab-dHLX-MH	FC
anti-human CD127	HCA145	Fab-dHLX-FSx2	FC
anti-human Cyclophilin A	HCA005	Fab-dHLX-MH	WB
anti-human Actin beta	HCA147	Fab-dHLX-MSx2	WB
anti-human Desmin	HCA023	Fab-dHLX-MH	IHC-F, IHC-P
anti-human Vimentin	HCA032	Fab-dHLX-MH	IHC-F, IHC-P
anti-Ki-67	HCA006	Fab-dHLX-MH	IHC-F, IF/ICC, IHC-P
anti-Ki-67	HCA053	h/m IgG1	IHC-F, IHC-P
anti-human ADAP	HCA092	Fab-dHLX-MH	IP
anti-human CD292	HCA004	Fab-S	FN
anti-FITC	HCA002	Fab-FS	E
anti-IFN gamma (capture Ab)	HCA043	Fab-dHLX-MH	E
anti-IFN gamma (detection Ab)	HCA044	Fab-A-FH	E

(1) For format and tag descriptions see our document 'Choosing the Best HuCAL Antibody Format'

(2) Applications: E = ELISA, FC = Flow cytometry, FN = Functional Assay, IF/ICC = Immunofluorescence/Immunocytochemistry, IHC-F = Immunohistochemistry - frozen (Cryostat), IHC-P = Immunohistochemistry - paraffin, IP = Immunoprecipitation, WB = Western blotting

3. HuCAL negative control antibodies – Fab formats

Catalog Number	Format ¹	Applications ²
HCA124	Fab-H	IHC-F, E, FC, IHC-P, WB
HCA045	Fab-FH	IHC-F, E, FC, IHC-P, WB
HCA098	Fab-V5H	IHC-F, E, FC, IHC-P, WB
HCA051	Fab-MH	IHC-F, E, FC, IHC-P, WB
HCA259	Fab-CysH	IHC-F, E, FC, IHC-P, WB
HCA260	Fab-Cys3H	IHC-F, E, FC, IHC-P, WB
HCA101	Fab-FSx2	IHC-F, E, FC, IHC-P, WB
HCA125	Fab-V5Sx2	IHC-F, E, FC, IHC-P, WB
HCA100	Fab-MSx2	IHC-F, E, FC, IHC-P, WB
HCA046	Fab-FS	IHC-F, E, FC, IHC-P, WB
HCA097	Fab-dHLX-FH	IHC-F, E, FC, IHC-P, WB
HCA052	Fab-dHLX-MH	IHC-F, E, FC, IHC-P, WB
HCA104	Fab-dHLX-FSx2	IHC-F, E, FC, IHC-P, WB
HCA102	Fab-dHLX-MSx2	IHC-F, E, FC, IHC-P, WB
HCA047	Fab-dHLX-FS	IHC-F, E, FC, IHC-P, WB
HCA048	Fab-dHLX-MS	IHC-F, E, FC, IHC-P, WB
HCA096	Fab-A-FH	IHC-F, E, FC, IHC-P, WB
HCA258	Fab-A-V5H	IHC-F, E, FC, IHC-P, WB
HCA107	Fab-A-FSx2	IHC-F, E, FC, IHC-P, WB
HCA123	Fab-A-V5Sx2	IHC-F, E, FC, IHC-P, WB
HCA106	Fab-A-MSx2	IHC-F, E, FC, IHC-P, WB
HCA269	Fab-Max-FH	IHC-F, E, FC, IHC-P, WB
HCA099	Fab-p53-H	IHC-F, E, FC, IHC-P, WB

(1) For format and tag descriptions see our document 'Choosing the Best HuCAL Antibody Format'

(2) Applications: E = ELISA, FC = Flow cytometry, IHC-F = Immunohistochemistry - frozen (Cryostat), IHC-P = Immunohistochemistry - paraffin, WB = Western blotting

4. HuCAL negative control antibodies – full immunoglobulin formats

Catalog Number	Format	Applications ¹
HCA189	hlgA1 / kappa	E
HCA172	hlgA1 / lambda	E
HCA190	hlgE / kappa	E
HCA171	hlgE / lambda	E
HCA192	hlgG1 / kappa	E
HCA049	hlgG1 / lambda	E
HCA193	hlgG2 / kappa	E
HCA108	hlgG2 / lambda	E
HCA194	hlgG3 / kappa	E
HCA178	hlgG3 / lambda	E
HCA195	hlgG4 / kappa	E
HCA050	hlgG4 / lambda	E
HCA247	hlgG4 proline mutation / kappa ²	E
HCA246	hlgG4 proline mutation / lambda ²	E
HCA191S	hlgM / kappa	E
HCA170S	hlgM / lambda	E

(1) Applications: E = ELISA

(2) This antibody has a mutation in the core hinge region that prevents the formation of IgG4 half molecules

5. Anti-tag secondary antibodies

Host and Specificity	Catalog Number	Tag Detected ¹
Mouse anti-Strep-tag [®] Immo	MCA2488	Sx, Sx2
Mouse anti-Strep-tag Classic	MCA2489	S, Sx, Sx2
Mouse anti-Strep-tag Classic, HRP	MCA2489P	S, Sx, Sx2
Mouse anti-His-6-tag	MCA1396	H
Mouse anti-His-6-tag, HRP	MCA5995P	H
Mouse anti-His-6-tag, Biotin	MCA1396B	H
Mouse anti-His-6-tag, FITC	MCA1396F	H
Mouse anti-His-6-tag, Alexa Fluor [®] 488	MCA1396A488	H
Mouse anti-His-6-tag, Alexa Fluor 647	MCA1396A647	H
Mouse anti-V5-tag	MCA1360GA	V5
Mouse anti-V5-tag, HRP	MCA1360P	V5
Mouse anti-V5-tag, AP	MCA1360A	V5
Mouse anti-V5-tag, Biotin	MCA1360B	V5
Mouse anti-V5-tag, FITC	MCA1360F	V5
Mouse anti-V5-tag, Alexa Fluor 488	MCA1360A488	V5
Mouse anti-V5-tag, Alexa Fluor 647	MCA1360A647	V5
Mouse anti-c-myc-tag (clone 9E10)	MCA2200GA	M
Mouse anti-c-myc-tag (clone 9E10), HRP	MCA2200P	M
Mouse anti-c-myc-tag, AP	MCA2200A	M
Mouse anti-c-myc-tag, Biotin	MCA2200B	M
Mouse anti-c-myc-tag, FITC	MCA2200F	M
Mouse anti-c-myc-tag, RPE	MCA2200PE	M
Mouse anti-c-myc-tag, Alexa Fluor 488	MCA2200A488	M
Mouse anti-c-myc-tag, Alexa Fluor 647	MCA2200A647	M
Rat anti-DYKDDDDK-tag	MCA4764	F
Rat anti-DYKDDDDK-tag, HRP	MCA4764P	F
Rabbit anti-DYKDDDDK-tag	AHP1074	F
Rabbit anti-DYKDDDDK-tag, HRP	AHP1074P	F

(1) For format and tag descriptions see our document 'Choosing the Best HuCAL Antibody Format'

6. Buffers and substrates

Reagent	Catalog Number
Antibody diluent	BUF014
DAB substrate	BUF021A
DAB substrate buffer	BUF022
HISPEC Buffer	BUF049
Histar Detection System	STAR3000A
Peroxide Blocking Reagent	BUF017B
Streptavidin-AP	STAR6B
Streptavidin-HRP	STAR5B
Streptavidin-RPE	STAR4B
TMB Core Plus	BUF062A

7. Antibody labeling – LYNX Rapid Conjugation Kits

HuCAL primary antibodies can be directly labeled with biotin, fluorescent dyes, and enzymes via chemical coupling in the same manner as conventional antibodies. Our LYNX kits offer a fast and simple conjugation procedure which requires no purification steps and provides assay sensitivities equal to those achieved with typical secondary antibodies.

Label Type	Options
Enzyme	Alkaline phosphatase (AP) Horseradish Peroxidase (HRP) Glucose Oxidase (GOx)
Single Dyes	Allophycocyanin (APC) Cy3 Cy5 DyLight®488 DyLight550 Fluorescein PerCP Rhodamine RPE Texas Red®
Tandem Dyes	APC-Cy5.5 APC-Cy7 PerCP-Cy5.5 RPE-Cy5 RPE-Cy5.5 RPE-Cy7 RPE-Texas Red Biotin Streptavidin

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