

# Reagents to Support HuCAL<sup>®</sup> Assay Development

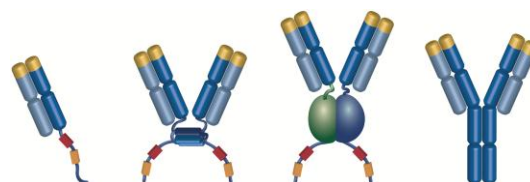


HuCAL<sup>®</sup> Fab and Ig antibodies are suitable for use in a diverse range of immunoassays. Typical applications include ELISA, flow cytometry, immunofluorescence, immunohistochemistry, and Western blotting, as well as various functional assays.

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

## Contents:

- I. Anti-Human Secondary Antibodies
- II. HuCAL<sup>®</sup> Positive Control Antibodies
- III. HuCAL<sup>®</sup> Negative Control Antibodies
- IV. Anti-Tag Secondary Antibodies
- V. Buffers and Substrates
- VI. Antibody Labelling – LYNX Rapid Conjugation Kits<sup>®</sup>



Suggested protocols, examples, and procedures, as well as a detailed discussion of our recombinant antibody technology can be found in our HuCAL<sup>®</sup> Antibodies Technical Manual (2<sup>nd</sup> Edition, 2010) or by visiting [www.abdserotec.com/HuCAL](http://www.abdserotec.com/HuCAL).

## I. Anti-Human Secondary Antibodies

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

Host and Specificity	Product Code
Goat anti-human F(ab') <sub>2</sub>	STAR126
Goat anti-human F(ab') <sub>2</sub> , HRP-conjugated	STAR126P
Goat anti-human F(ab') <sub>2</sub> , Alkaline phosphatase-conjugated	STAR126A
Goat anti-human F(ab') <sub>2</sub> , Biotin-conjugated	STAR126B
Goat anti-human F(ab') <sub>2</sub> , FITC-conjugated	STAR126F
Goat anti-human F(ab') <sub>2</sub> , TRITC-conjugated	STAR126TRC
Goat anti-human (H + L), F(ab') <sub>2</sub> fragment, R-Phycoerythrin-conjugated	STAR97PE
Goat anti-human kappa light chain	STAR127
Goat anti-human kappa light chain, HRP-conjugated	STAR127P
Goat anti-human kappa light chain, FITC-conjugated	STAR127F
Goat anti-human kappa light chain, F(ab') <sub>2</sub> fragment	STAR128
Goat anti-human kappa light chain, HRP-conjugated F(ab') <sub>2</sub> fragment	STAR128P
Goat anti-human kappa light chain, RPE-conjugated F(ab') <sub>2</sub> fragment	STAR128PE
Goat anti-human lambda light chain	STAR129
Goat anti-human lambda light chain, HRP-conjugated	STAR129P
Goat anti-human lambda light chain, FITC-conjugated	STAR129F
Mouse anti-human IgG, Fc specific	MCA647G
Mouse anti-human IgG, Fc specific, HRP conjugated	MCA647P
Mouse anti-human IgG, Fc specific, FITC conjugated	MCA647F

## II. HuCAL® Positive Control Antibodies

Specificity	Product Code (Clone)	Format (1)	Applications (2)
anti-human CD81	HCA086	Fab-dHLX-MH	F
anti-human CD127	HCA145	Fab-dHLX-FSx2	F
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	P, C
anti-human Vimentin	HCA032	Fab-dHLX-MH	P, C
anti-Ki-67	HCA006	Fab-dHLX-MH	P, C, IF
anti-Ki-67	HCA053	h/m IgG1	P, C
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 descriptions see our document 'Choosing the Best HuCAL® Antibody Format'

(2) Applications: C = Immunohistology – frozen, E = ELISA, F= Flow cytometry, IP = Immunoprecipitation, P = Immunohistology - paraffin, WB = Western blotting, IF = Immunofluorescence, FN = Functional Assay

## III. HuCAL® Negative Control Antibodies

Product Code	Format (1)	Applications (2)
HCA098	Fab-V5H	E, WB, P, C, F
HCA045	Fab-FH	E, WB, P, C, F
HCA124	Fab-H	E, WB, P, C, F
HCA125	Fab-V5Sx2	E, WB, P, C, F
HCA100	Fab-MSx2	E, WB, P, C, F
HCA101	Fab-FSx2	E, WB, P, C, F
HCA046	Fab-FS	E, WB, P, C, F
HCA052	Fab-dHLX-MH	E, WB, P, C, F
HCA097	Fab-dHLX-FH	E, WB, P, C, F
HCA102	Fab-dHLX-MSx2	E, WB, P, C, F
HCA104	Fab-dHLX-FSx2	E, WB, P, C, F
HCA048	Fab-dHLX-MS	E, WB, P, C, F
HCA047	Fab-dHLX-FS	E, WB, P, C, F
HCA096	Fab-A-FH	E, WB, P, C, F
HCA123	Fab-A-V5Sx2	E, WB, P, C, F
HCA106	Fab-A-MSx2	E, WB, P, C, F
HCA107	Fab-A-FSx2	E, WB, P, C, F
HCA099	Fab-p53-H	E, WB, P, C, F
HCA139	Fab-V5H	E, WB, P, C, F
HCA049	hIgG1/lambda	E, WB, P, C, F
HCA108	hIgG2/lambda	E, WB, P, C, F
HCA050	hIgG4/lambda	E, WB, P, C, F
HCA110	h/m IgG1 Fc*	E, WB, P, C, F

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

(2) Applications: C = Immunohistology – frozen, E = ELISA, F= Flow cytometry, IP = Immunoprecipitation, P = Immunohistology - paraffin, WB = Western blotting, IF = Immunofluorescence, FN = Functional Assay

\* Chimeric Ab consisting of murine Fc and human Fab domains

## IV. Anti-Tag Secondary Antibodies

Host and Specificity	Product Code	Tag Detected
Mouse anti-Strep-tag <sup>®</sup> Immo	MCA2488	S, Sx, Sx2
Mouse anti-Strep-tag <sup>®</sup> Classic	MCA2489	S, Sx, Sx2
Mouse anti-Strep-tag <sup>®</sup> Classic, HRP-conjugated	MCA2489P	S, Sx, Sx2
Mouse anti-His-6-tag	MCA1396	H
Mouse anti-His-6-tag, HRP-conjugated	MCA1396P	H
Mouse anti-His-6-tag, Biotin-conjugated	MCA1396B	H
Mouse anti-His-6-tag, FITC-conjugated	MCA1396F	H
Mouse anti-His-6-tag, Alexa Fluor <sup>®</sup> 488-conjugated	MCA1396A488	H
Mouse anti-His-6-tag, Alexa Fluor <sup>®</sup> 647-conjugated	MCA1396A647	H
Mouse anti-V5-tag	MCA1360GA	V5
Mouse anti-V5-tag, HRP	MCA1360P	V5
Mouse anti-V5-tag, AP-conjugated	MCA1360A	V5
Mouse anti-V5-tag, Biotin	MCA1360B	V5
Mouse anti-V5-tag, FITC	MCA1360F	V5
Mouse anti-V5-tag, Alexa Fluor <sup>®</sup> 488	MCA1360A488	V5
Mouse anti-V5-tag, Alexa Fluor <sup>®</sup> 647	MCA1360A647	V5
Mouse anti-c-myc-tag (clone 9E10)	MCA2200GA	M
Mouse anti-c-myc-tag (clone 9E10), HRP-conjugated	MCA2200P	M
Mouse anti-c-myc-tag, Alkaline phosphatase-conjugated	MCA2200A	M
Mouse anti-c-myc-tag, Biotin-conjugated	MCA2200B	M
Mouse anti-c-myc-tag, FITC-conjugated	MCA2200F	M
Mouse anti-c-myc-tag, RPE-conjugated	MCA2200PE	M
Mouse anti-c-myc-tag, Alexa Fluor <sup>®</sup> 488-conjugated	MCA2200A488	M
Mouse anti-c-myc-tag, Alexa Fluor <sup>®</sup> 647-conjugated	MCA2200A647	M
Rat anti-FLAG <sup>®</sup> -tag	MCA4764	F
Rat anti-FLAG <sup>®</sup> -tag, HRP-conjugated	MCA4764P	F
Rabbit anti-FLAG <sup>®</sup> -tag	AHP1074	F
Rabbit anti-FLAG <sup>®</sup> -tag, HRP-conjugated	AHP1074P	F
Rabbit anti-bacterial alkaline phosphatase, HRP-conjugated	AHP1108P	A

*Further options and formats for anti-tag secondary antibodies are available, please inquire.*

## V. Buffers and Substrates

Reagent	Product Code
Antibody diluent	BUF014
DAB substrate	BUF021A
DAB substrate buffer	BUF022
HISPEC Buffer	BUF049
Histar Detection System	STAR3000
Peroxide Blocking Reagent	BUF017A
Streptavidin-AP	STAR6B
Streptavidin-HRP	STAR5B
Streptavidin-RPE	STAR4B
TMB Plus	BUF042A

## VI. Antibody Labelling – LYNX Rapid Conjugation Kits®

HuCAL® primary antibodies can be directly labelled 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.

The table below contains the full range of LYNX kits.

	Label	Reaction Size	Product Code
	Biotin	3 x 200 µg 2 mg	LNK041B LNK042B
Enzymes	AP	100 µg 3 x 100 µg 1 mg	LNK011AP LNK012AP LNK013AP
	HRP	400 µg 3 x 400 µg 4 mg 5 x 4 mg 20 mg	LNK001P LNK002P LNK003P LNK004P LNK005P
	Glucose oxidase (GOx)	3 x 100 µg 1 mg	LNK051GOX LNK052GOX
Single Dyes	Allophycocyanin (APC)	150 µg 3 x 150 µg 1.5 mg	LNK031APC LNK032APC LNK033APC
	Cy5	3 x 200 µg 2 mg	LNK101CY5 LNK102CY5
	Fluorescein	3 x 200 µg 2 mg	LNK061F LNK062F
	PerCP	100 µg 3 x 100 µg 1 mg	LNK071PERCP LNK072PERCP LNK073PERCP
	RPE	60 µg 3 x 60 µg 600 µg	LNK021RPE LNK022RPE LNK023RPE
Tandem Dyes	APC-Cy5.5	150 µg 3 x 150 µg 1.5 mg	LNK121APCCY5.5 LNK122APCCY5.5 LNK123APCCY5.5
	APC-Cy7	150 µg 3 x 150 µg 1.5 mg	LNK131APCCY7 LNK132APCCY7 LNK133APCCY7
	PerCP-Cy5.5	100 µg 3 x 100 µg 1 mg	LNK141PERCPCY5.5 LNK142PERCPCY5.5 LNK143PERCPCY5.5
	RPE-Cy5	60 µg 3 x 60 µg 600 µg	LNK081C LNK082C LNK083C
	RPE-Cy5.5	60 µg 3 x 60 µg 600 µg	LNK091PECY5.5 LNK092PECY5.5 LNK093PECY5.5
	RPE-Cy7	60 µg 3 x 60 µg 600 µg	LNK111PECY7 LNK112PECY7 LNK113PECY7

*Further options and formats for LYNX kits are available, please inquire.*

For more information on HuCAL® antibodies, LYNX Rapid Conjugation Kits® or related antibody reagents, search online at [www.abdserotec.com](http://www.abdserotec.com).

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