> Types of labeling services

We offer several types of antibody labeling protocols, depending on your needs:

- Biotin, is an ideal antibody labeling process when sensitive assays are needed
- Horseradish Peroxidase, or HRP, is commonly used to conjugate proteins in Western blots, immunohistochemistry and ELISA protocols
- Fluorescein isothiocyanate or FITC, is a type of fluorescein that is used for biological research for bioconjugate, primary antibody, and secondary antibody labeling
- Tetramethylrhodamine or TRITC is a bright orangefluorescent dye with excitation ideally suited to the 532 nm laser line
- Antibody conjugated with different probes and with new dye doped nanoparticles

Custom Antibody Services

CONTACT US

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Your partner for antibody generation

Diatheva can provide customized services for polyclonal and monoclonal antibodies for your specific application.

A full service is available for all types of antibodies production, including antigen design, immunogen preparation, antibody development, antibody purification and characterization.

Leverage our expertise in antibody production.

Custom antibody categories

Diatheva combines the most extended range of services and the best experts for your customized antibodies production:

- Mouse monoclonal antibodies
- Rabbit polyclonal antibodies

Custom assay development

As well as antibody development, we can offer customized development services of ELISA tests (sandwich, competitive, direct and indirect). Our qualified process and assay development experts will customize products to meet your specific application requirements.



Custom monoclonal antibody production services

We offer three different packages to produce your monoclonal antibodies:

- PACKAGE 1: FROM PROTEIN TO MONOCLONAL ANTIBODY
- PACKAGE 2: FROM PEPTIDE TO MONOCLONAL ANTIBODY
- PACKAGE 3: FROM FULL LENGTH PROTEIN PRODUCTION TO MONOCLONAL ANTIBODY

PACKAGE	PACKAGE CONTENTS	STARTING MATERIAL	GUARANTEES	DELIVERABLES	TIMELINE	PRODUCTION PROCESS		
1	 Mice immunization Hybridoma creation and selection Antibody purification by antigen or protein A/G affinity chromatography ELISA and Western Blotting characterization 	Protein supplied by customer	WB and ELISA titre	 1-3 mg of purified monoclonal antibody 	4 months	V	Antigen design Peptide synthesis, gene synthesis & protein production	
2	 Peptide synthesis & KLH conjugation Mice immunization Hybridoma creation and selection Antibody purification by antigen or protein A/G affinity chromatography ELISA and Western Blotting characterization 	Peptide sequence provided by customer (1 peptide & peptide-KLH conjugation)	WB and ELISA titre	 1-3 mg of purified monoclonal antibody 3 mg of peptide 	3-4 months	2000 2000	Immunization Immunization of mice with our optimized proprietary protocol Cell fusion Collection of the splenocytes and fusions with a myeloma cell line	
3	 Gene synthesis and subcloning Protein expression and purification Mice immunization Hybridoma creation and selection Antibody purification by antigen or protein A/G affinity chromatography ELISA and Western Blotting characterization 	Full length protein sequence provided by customer (5 mg protein, ≥90% of purity)	WB and ELISA titre	 1-3 mg of recombinant antigen 1-3 mg of purified monoclonal antibody 	6 months		 Hybridoma selection and screenin Hybrid cells selection (HAT selectic Culture supernatant screening vs. target antigen (ELISA screening) Isolation and selection of the best monoclones Isolation of monoclones by limitin dilution Expansion and screening of the monoclones by ELISA or in target application 	

Additional services

- Antigen sequence analysis
- Choice of the peptides/antigens: immunoreactive epitopes analysis
- Polyclonal antibody fragmentation service: Fab, Fc and F(ab')2 fragments Master cell bank of hybridoma cells: characterization and storage
- Epitope mapping: identification of the binding site of the antibody on its target
- Mycoplasma: analysis of mycoplasma strains by luminescence reaction
- Endotoxin: quantitative detection of LPS contents

Culture supernatant screening target antigen (ELISA screening)
 Isolation and selection of the Imonoclones Isolation of monoclones by lindilution Expansion and screening of the monoclones by ELISA or in tarapplication

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Custom polyclonal antibody production services

We offer three different packages to produce your polyclonal antibodies:

- PACKAGE 1: FROM PROTEIN TO POLYCLONAL ANTIBODY
- PACKAGE 2: FROM PEPTIDE TO POLYCLONAL ANTIBODY
- PACKAGE 3: FROM FULL LENGTH PROTEIN PRODUCTION TO POLYCLONAL ANTIBODY

PACKAGE	PACKAGE CONTENTS	STARTING MATERIAL	GUARANTEES	DELIVERABLES	TIMELINE		PRODUCTI	TION PROCESS	
1	 Rabbits immunization Serum titration Antibody purification by antigen or protein A/G affinity chromatography ELISA and Western Blotting characterization 	Protein supplied by customer	ELISA titre	 15-25 mg of purified antibodies Immune serum, 1 ml/rabbit Pre-immune serum, 1 ml rabbit 	2-3 months	1	Antigen de Definition d • Protein d • Peptide d	of the antigen: esign esign	
2	 Peptide synthesis & KLH conjugation Rabbits immunization Serum titration Antibody purification by antigen or protein A/G affinity chromatography ELISA and Western Blotting characterization 	Peptide sequence provided by customer (1 peptide & peptide-KLH conjugation)	ELISA titre	 1-3 mg of purified antibodies Immune serum, 1 ml/rabbit Pre-immune serum, 1 ml/rabbit 3 mg of peptide 	3-4 months	4	Protein pro system of y Immunizat	duction in an expression rour choice	
3	 Gene synthesis and subcloning Protein expression and purification Rabbits immunization Serum titration Antibody purification by antigen or protein A/G affinity chromatography ELISA and Western Blotting characterization 	Full length protein sequence provided by customer (5 mg protein, ≥90 % of purity)	ELISA titre	 1-3 mg of purified antibodies 1 mg protein, >90% of purity 	4-5 months		 characteria Purification protein G Purification 	y ELISA ification and antibody zation on against protein A or	
Choice of	services equence analysis the peptides/antigens: immu I antibody fragmentation ser			ts	1		ditional ervices	Custom assay development	

CUSTOM ASSAY DEVELOPMENT SERVICES: PROCESS DETAILS nAb & pA Protoc

