



POLYCLONAL ANTIBODIES AGAINST RECOMBINANT PROTEIN

Primm offers a very competitive service based on an optimized fast and efficient technology to produce recombinant protein for immunization. Starting from the nucleotide gene sequence or from a gene ID number/name related to public genomic databases (human, mouse, rat origin), Primm will proceed to the cloning of the cDNA sequence in proprietary expression vector. If the gene target is from unusual organism or species and a reliable RNA source is not available, the customer may be requested to supply the gene. After complete DNA sequencing of the expression clone, our team will proceed with production in *E. coli* of the His-tag fusion protein; purification is performed as "standard grade" in denaturing buffer, which typically yields good quality for immunization.

Depending on the protein size and features, full length protein and 2/3 domains (from 100 to 300 aa) will be chosen for expression. Primm will attempt production and purification of all selected domains; the best one, in terms of purity and yield, will be used for immunization. For the selection of recombinant domains, our staff will take into consideration specific needs and recommendation from customer.

Target protein



Full length

HisTAG



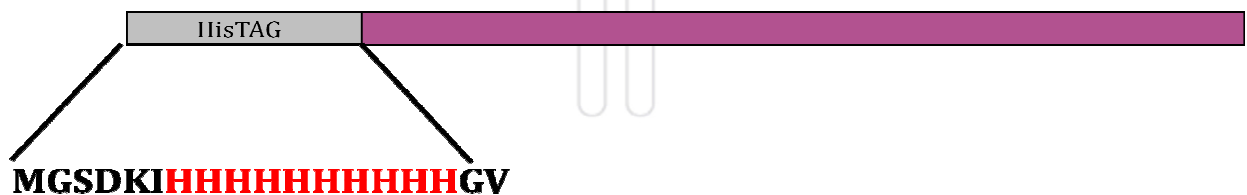
Domain 1

HisTAG



Domain 2

HisTAG





IMMUNIZATION STANDARD PROTOCOL:

IMMUNIZATION TIME	RABBIT	MOUSE	RAT
Preimmune serum collection	1 ml/rabbit	300 µl serum pool	2 ml serum pool
T0 1st immunization	200 µg Ag in CFA	50 µg Ag in CFA	100 µg Ag in CFA
T21 2nd immunization	100 µg Ag in IFA	20-40 µg Ag in IFA	50 µg Ag in IFA
T28 3rd immunization	100 µg Ag in IFA	20-40 µg Ag in IFA	50 µg Ag in IFA
T35 Bleed + ELISA* test	500 µl	50 µl	50 µl
T37 4th immunization	50-100 µg Ag in IFA	10-20 µg Ag in IFA	25 µg Ag in IFA
Final Bleed	40-50 ml/rabbit	0.2-0.5 ml/mouse	3-7 ml/rat

***Serum positivity is guaranteed at a dilution of the serum equivalent to 1:10,000 as compared to pre-immune serum in ELISA test against the protein antigen.**

CFA Complete Freund Adjuvant
IFA Incomplete Freund Adjuvant

TIME REQUIRED:

ANTIGEN	TIME REQUIRED		
	RABBIT	MOUSE	RAT
RECOMBINANT PROTEIN	2.5/3 months	2.5/3 months	2.5/3 months

DELIVERED PRODUCTS:

DELIVERED PRODUCTS	RABBIT	MOUSE	RAT
Preimmune sera	1 ml/rabbit	300 µl serum pool	2 ml serum pool
Immune sera	40-50 ml/rabbit	0.2-0.5 ml/mouse	3-7 ml/rat
Left over recombinant protein	max 500 µg	max 500 µg	max 500 µg
Expression plasmid	up to 2 µg	up to 2 µg	up to 2 µg



ADDITIONAL SERVICES (at additional charge):

ADDITIONAL SERVICES	RABBIT	MOUSE	RAT
Testing of 5 or 10 preimmune sera to select animals before immunization	yes	no	no
Prolongation of immunization protocol	yes	yes	yes
Affinity Purification against antigen of half serum/animal keeping separated each purified prep of each animal) + ELISA test	yes	no	no
Affinity Purification against antigen of total serum/animal keeping separated each purified prep of each animal) + ELISA test	no	no	no
Affinity Purification against Protein A of half serum/animal keeping separated each purified prep of each animal) + ELISA test	yes	no	no
Affinity Purification against Protein A of total serum/animal keeping separated each purified prep of each animal) + ELISA test	yes	no	no