

## ANTIBODY SERVICES

### ▪ Monoclonal Antibody Development Service

**BHAT BIO-TECH** provides customized hybridoma development service to meet the customer needs. We will develop monoclonal antibodies to a wide range of antigens including peptides. All the animal experiments are carried out in our state-of-the art facility approved by CPCSEA, Govt. of India.

**The monoclonal antibody development service is divided into four phases**

**Phase I:** Immunization and evaluation of antibody titer

**Phase II:** Fusion, plating and screening

**Phase III:** Sub-cloning by limiting dilution, expansion and cryopreservation of 3 selected clones

**Phase IV:** Amplification- production of 50 ml of culture supernatant containing monoclonal antibody.

#### Sample requirements:

- 5mg of pure protein or 25mg-30mg of peptide

#### Deliverables:

- **Phase I:**
  - ELISA data for antibody titration
- **Phase II:**
  - ELISA data for screening of hybridoma
  - Culture supernatant from 5 of the best hybridoma containing wells.
- **Phase III:**
  - ELISA data for screening antibody secreting sub-clones
  - Culture supernatant from 3 of monoclonal
  - Isotyping results of 3 of the monoclonal antibody
- **Phase IV:**
  - 50 ml of culture supernatant containing monoclonal antibody
  - Frozen hybridoma cells
  - Final project report

Cat. No.	Service
BBCS-20114	Monoclonal antibody development service
BBCS-20114A	Phase I
BBCS-20114B	Phase II
BBCS-20114C	Phase III
BBCS-20114D	Phase IV

▪ **Additional Hybridoma related services:**

- Additional sub-cloning, expansion and screening of parental clones
- Cryopreservation of up to 20 clones per month
- Monoclonal antibody production in cell culture flask- 50 to 100 ml culture supernatant
- Isotyping of monoclonal antibodies

Cat. No.	Service
BBCS-20116	Monoclonal antibody production in cell culture flask
BBCS-20117	Isotyping of monoclonal antibody

▪ **Polyclonal Antibody Production Service in Rabbit, Chicken and Mice**

At **BHAT BIO-TECH**, we develop custom polyclonal antibodies of highest quality with fast and reliable delivery times. The antibody screening will be done by direct ELISA and Western blotting.

**Sample requirements:**

- 5 mg of immunogen

**Deliverables:**

- **Rabbit:**
  - 2ml of pre immunized rabbit serum
  - 25ml to 30ml of immunized rabbit serum
- **Chicken:**
  - Polyclonal IgY antibody.
- **Mice:**
  - Pre immunized and immunized mice serum.

Cat. No.	Service
BBCS-20118	Polyclonal antibody production service in Rabbit
BBCS-20142	Polyclonal antibody production service in Chicken
BBCS-20143	Polyclonal antibody production service in Mice

▪ **Antibody Purification Services:**

**BHAT BIO-TECH** provides a wide range of options for the purification of monoclonal and polyclonal antibodies. These include relatively common methods such as protein A and protein G affinity as well as protein L and antigen affinity chromatography.

**Sample requirements:**

- Serum sample
- If antigen affinity chromatography is required  
5mg of antigen to prepare purification column

**Deliverables:**

- Purified antibody
- Project report

Cat. No.	Service
BBCS-20119	Purification of antibody by Protein A or protein G affinity chromatography
BBCS-20120	Purification of antibody by Protein L affinity chromatography
BBCS-20121	Purification of antibody by antigen affinity chromatography

▪ **Antibody Labeling Services**

**BHAT BIO-TECH** offers a wide range of antibody labeling services to meet the requirements of the researchers. Antibody conjugated to enzymes, biotin or FITC are widely used in a variety of immunotechniques as a detection reagent. We provide the following conjugation services

- **Conjugation to HRP**
- **Conjugation to ALP**
- **Conjugation to FITC**

Cat. No.	Service
BBCS-20122	Antibody- HRP conjugation
BBCS-20123	Antibody- ALP conjugation
BBCS-20125	Antibody- FITC conjugation

▪ **Colloidal Gold Labeling Service**

At **BHAT BIO-TECH** we have a strong expertise in rapid diagnostic kit development using colloidal gold conjugate. We offer conjugation of colloidal gold to a variety of proteins. We can conjugate proteins to colloidal gold of varying size such as 10nm, 15nm, 20nm, 40nm and 60nm depending on the customer requirements.

**Features:**

- No aggregation
- OD 540 is 10 or above
- Uniform size
- Wide range of particle size

Cat. No.	Service
BBCS-20129	Colloidal gold labeling service