

# Gene to Antibody in LabFrontier



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LabFrontier is a biotech company specializing in the production of polyclonal and monoclonal antibodies and proteins at the request of customers.

With an extensive line of cell signaling products, we will ultimately provide antibody contents for antibody array and diagnostic kits.



# Antibody Products in house

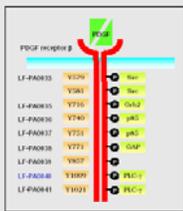
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## POLYCLONAL ANTIBODY

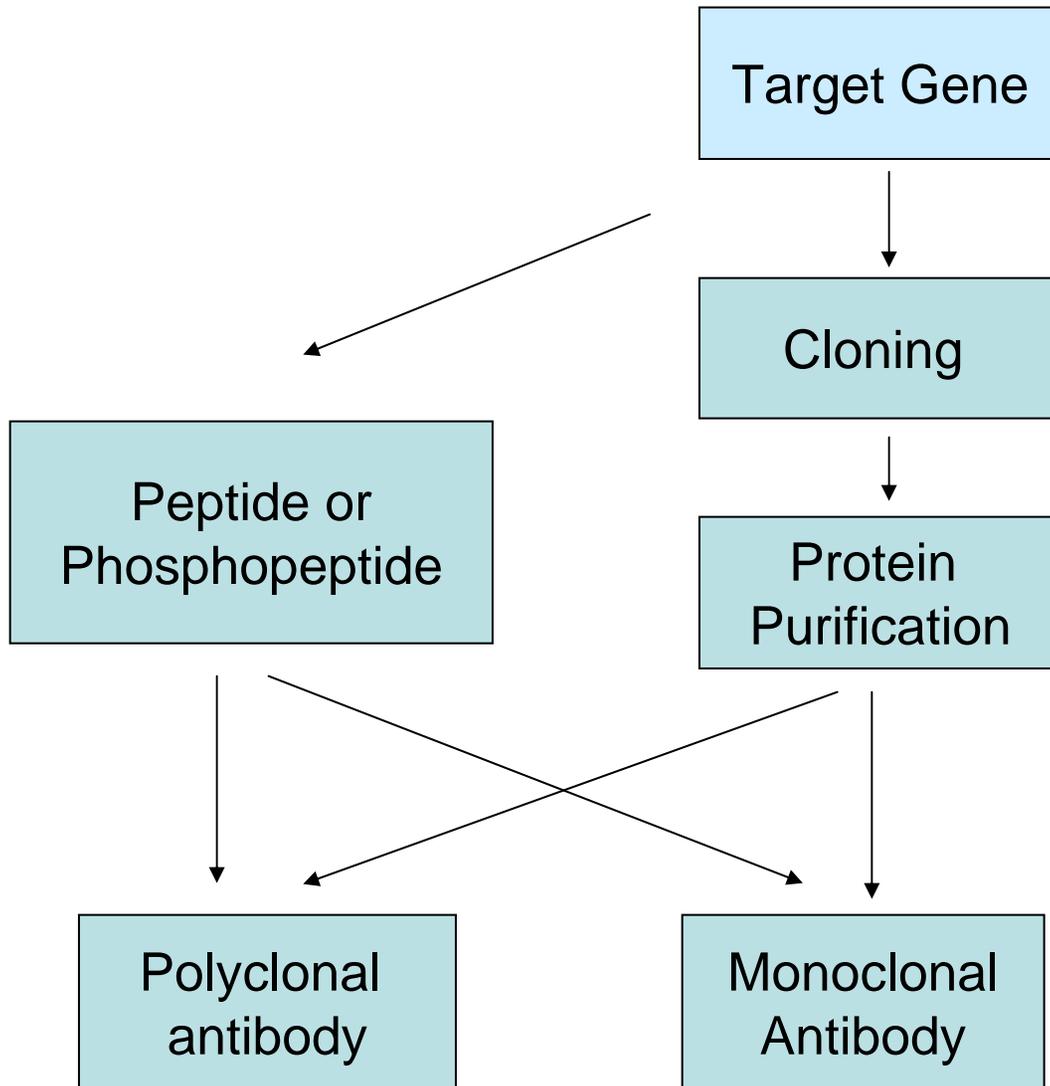
### Anti-Phospho-PDGFR β (Y1009)

Catalog No. LF-PA0040

**Background:** Platelet-derived growth factor(PDGF) have been implicated in the control of cell proliferation, survival and migration. Thus far, gene-targeting experiments have been attempted to create knockout mice deficient for PDGFR-α, or PDGFR-β. These mice, however, died either at the embryonic stage or several days after birth. Platelet-derived growth factor receptors, PDGFR-α and PDGFR-β, have five extracellular immunoglobulin-like domains and an intracellular tyrosine kinase domain. Upon binding a PDGF, the receptors form homo- and heterodimers. Dimerization of the receptors juxtaposes the intracellular parts of the receptors which then allows phosphorylation in pairs between the two receptors in the complex. These autophosphorylation provide docking sites for downstream signal transduction molecules. More than 10 different SH2-domain containing molecules have been shown to bind to different autophosphorylation sites in the PDGF-α and -β-receptors. There are signal transduction molecules with enzymatic activity, such as PI3-kinase, PLC-γ, the Src, SHP-2, cAP, as well as adaptor molecules such as Grb2, Shc, Nck, Crk and Cbl, and Shc. Each of the different partners recruited by the activated receptor initiates a different signaling pathways, making possible a great variety of cellular response.



# Custom Services



## Our strengths are:

- **Strict quality control**
- **Competitive price**
- **Comprehensive service from protein expression/ purification to antibody production/purification**

### LabFrontier's Clients

**Global & local industries: 80%**  
**Government: 5%**  
**University&institute: 15%**



# Affinity Capture Criteria : LabFrontier



**Advantages:** From gene, LabFrontier provides customers with comprehensive and competitively priced antibody production service.

## **Methodology:**

\*Polyclonal antibody production -10~13weeks, 2.3mg of antigen for 2 rabbits

\*Monoclonal antibody production - 16~20 weeks, 2.5mg of antigen for 5 BALB/c mice

## **Mono/polyclonal or other:**

Peptide synthesis service

Antibody purification (Using affinity column/IgG purification) performed

## **Throughput:**

2000 cases of Rabbits polyclonal antibody production  
and 500 cases of mice monoclonal antibody production.

**Cost:** Peptide synthesis service: \$400 (15mer, 70%, 5mg, conjugation included)

Polyclonal antibody production service: \$550/ 2 rabbits

Monoclonal antibody production service: \$4000/ 5 Balb mice

Special price for bulk order

**Verification:** ELISA, Optional-Western Blot, Immunoprecipitation, Immunohistochemistry