

DESCRIPTION

| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human PDGFRL in direct ELISAs. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 1008804 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Human embryonic kidney cell, HEK293-derived human PDGFRL Gln22-Ser375 Accession # Q15198 |
| Conjugate | Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|-----------------------|----------------------------------|-------------------------------------|
| Flow Cytometry | 0.25-1 µg/10 ⁶ cells | A549 human lung carcinoma cell line |

PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

Platelet-derived growth factor receptor-like protein is a 67 kDa glycoprotein protein consisting of two Ig-like C2-type domains. By sequence similarity, human PDGFRL is 90% similar to the mouse version and 91% similar to that of the rat. It is a secreted protein related to the class III subfamily of receptor tyrosine kinases (RTK), the platelet-derived growth factor receptors (1-5). PDGFRL is a tumor suppressor active in the tumor-suppression network and implicated in colorectal cancer, and a decrease in PDGFRL expression levels has been observed in breast cancer (1). A variant of PDGFRL is found to play a role in the development of Behçet disease, a complex immunoregulatory disease (6). The autoimmune role of PDGFRL is also supported by its up-regulation in a mouse model for Rheumatoid Arthritis (7). Study also showed that PDGFRL may play a role in chondrocyte proliferation and differentiation.

References:

- Guo, F-J. *et al.* (2010) World J Gastroenterol. **16**:1465.
- Andrae, J. *et al.* (2008) Genes Dev. **22**:1276.
- Heldin, C-H. and B. Westermark (1999) Physiol. Rev. **79**:1283.
- Claesson-Welsh, L. *et al.* (1989) Proc. Natl. Acad. Sci. USA **86**:4917.
- Matsui, T. *et al.* (1989) Science **243**:800.
- Hou, S. *et al.* (2013). Human Mutat. **34**:74.
- Fujikado, N. *et al.* (2006). Arthritis Res. & Ther. **8**:R100.
- Kawata, K. *et al.* (2017) J Cell Biochemistry. **118**:4033.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.