



## HMP19 Polyclonal Antibody

Cat #: ABP55550

Size: 30µl /100µl /200µl

### Product Information

|   |  |   |   |
|---|--|---|---|
|   | <b>Product Name:</b> HMP19 Polyclonal Antibody                       |   |   |
|   | <b>Applications:</b> IHC-P, ELISA                                    |   | <b>Isotype:</b> Rabbit IgG                |
|   | <b>Reactivity:</b> Human, Mouse                                      |   |   |
| <b>REF</b>  | <b>Catalog Number:</b> ABP55550                                      | <b>LOT</b>  | <b>Lot Number:</b> Refer to product label |
|   | <b>Formulation:</b> Liquid   |   | <b>Concentration:</b> 1 mg/ml             |
|  | <b>Storage:</b> Store at -20°C. Avoid repeated freeze / thaw cycles. |  | <b>Note:</b> Contain sodium azide.        |

**Background:** The chondroitin sulfate proteoglycan NG2 is a type I membrane protein expressed by subpopulations of glia including oligodendroglial precursor cells and a variety of tumor cells. Normal precursor cells and malignant tumor cells migrate and proliferate, but there is evidence that cells may not be able to engage in both activities at the same time. However, NG2 is involved in promoting both proliferation and motility. The extracellular domain of NG2 sequesters growth factors and binds to both growth factor receptors and extracellular matrix ligands such as fibronectin, collagens and laminin. The cytoplasmic domain is involved in activating Rac, Cdc42 and p130 Cas. PKCα phosphorylates NG2 at Thr2256, triggering the redistribution of NG2 from apical microprocesses to lamellipodia accompanied by enhanced cell motility. ERK phosphorylates NG2 at Thr2314, stimulating cell proliferation.

**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: IHC-P (1:100-1:300), ELISA (1:20000). Not yet tested in other applications.

**Storage Buffer:** PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.

**Storage Instructions:** Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.