

## Purified Rabbit Anti-mouse Fractalkine

**Catalog Number:** TP233

**Lot Number:** 080118

**Content:** Protein A purified rabbit IgG, 500 µg, with 0.1% sodium azide, lyophilized.

(Reconstitute by adding 500 µl PBS)

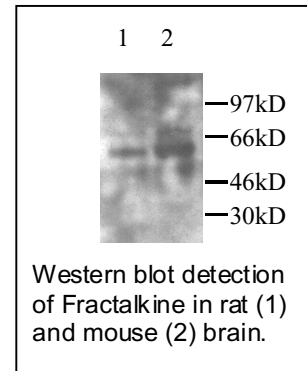
**Product Description and Usage:** For research use only. This neutralizing polyclonal antibody, which reacts with recombinant and natural mouse fractalkine, was generated using *E. coli*-expressed chemotactic domain of mouse fractalkine as an immunogen. To achieve best results, titrate antibody by dilution for each application:

Western blot (1:1,000-1:2,000)  
Immunoprecipitation (1:300-1:800)  
Immunohistochemistry (1:100-1:500)

Less than 30 % cross-reactivity to human and rat Fractalkine. Cross-reactivity to fractalkine of other species has not been determined.

**Storage Condition:** 4 C for short term storage or -20 C in small aliquots for long term storage. Avoid repeated freeze and thaw.

**Background:** Fractalkine, also termed neurotactin, is a membrane-bound CX<sub>3</sub>C chemokine. The mature protein is part of



a 397-amino acid precursor consisting of a chemokine domain (76 amino acids), a mucin stalk of 241 residues, a putative transmembrane domain (18 amino acids), and an intracellular tail of 37 amino acids. Within the chemokine domain the first two cysteine residues are separated by 3 amino acids. Fractalkine message is found at high concentrations in the brain, and also in kidney, lung and heart. Fractalkine is chemotactic for monocytes and may play a role in brain inflammation.

### References:

1. Bazan, J.F. et al. (1997) A new class of membrane-bound chemokine with a CX<sub>3</sub>C motif. *Nature* 385:640-644
2. Pan, Y. et al. (1997) Neurotactin, a membrane-anchored chemokine upregulated in brain inflammation. *Nature* 387:611-617
3. Harrison, J.K., et al. (1998) Role for neuronally derived fractalkine in mediating interactions between neurons and CX3CR1-expressing microglia. *Proc Natl Acad Sci U S A* 95(18):10896-10901

Torrey Pines Biolabs, Inc.  
9073 Knight Road  
Houston, TX 77054  
email: [tpbi@chemokine.com](mailto:tpbi@chemokine.com)

Tel: (713) 383-8144  
Toll-free: (866) 383-8144  
Fax: (713) 383-8142  
web: [www.chemokine.com](http://www.chemokine.com)