# Human TAFA5/FAM19A5 Alexa Fluor® 532-conjugated Antibody

Monoclonal Rat $IgG_1$ Clone # 463102

Catalog Number: FAB5148X

100 µg

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects TAFA5/FAM19A5 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human TAFA2, 3, or 4 is observed. |
| **Source** | Monoclonal Rat $IgG_1$ Clone # 463102 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | *E. coli*-derived recombinant human TAFA5/FAM19A5<br>Gln26-Ser125<br>Accession # NP_056196 |
| **Conjugate** | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm |
| **Formulation** | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.*

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| **Western Blot** | Optimal dilution of this antibody should be experimentally determined. |
| **Immunohistochemistry** | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

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| **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. 12 months from date of receipt, 2 to 8 °C as supplied |

## BACKGROUND

TAFA5 (also FAM19A5) is a 14 kDa type I transmembrane protein and member of the FAM19/TAFA family of chemokine-like proteins (1). Human TAFA5 is 132 amino acids (aa) in length. It contains a 15 aa extracellular domain, a 23 aa transmembrane sequence, and a 95 aa cytoplasmic region. Alternate splicing produces two additional isoforms. Isoform 2, a secreted form, has a 31 aa substitution for residues 1-38 in isoform 1. Isoform 3 has an eight aa substitution for residues 1-87 in isoform1. Human TAFA5 is 100% aa identical to mouse TAFA5 (1). Within the TAFA family, TAFA5 is the most distinct member, while TAFAs 2, 3, and 4 are the most closely related members (1). Real-time PCR analysis indicates that TAFA5 mRNA expression is restricted to the central nervous system (CNS), with the highest level in the basal ganglia and cerebellum (1). The biological functions of TAFA family members are not yet known, but there are a few tentative hypotheses. First, TAFAs may modulate immune responses in the CNS by functioning as brain-specific chemokines, and may act with other chemokines to optimize the recruitment and activity of immune cells in the CNS (1). Second, TAFAs may represent a novel class of neurokines that act as regulators of immune nervous cells (1-2). Finally, TAFAs may control axonal sprouting following brain injury (1).

## PRODUCT SPECIFIC NOTICES

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