

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FRS2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 462902
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FRS2 Asn121-Asn449 Accession # Q8WU20
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	A172 human glioblastoma cell line fixed with paraformaldehyde and permeabilized with saponin

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

FRS2 (FGFR substrate 2; also SNT and FSR2-α) is a 70-90 kDa member of the FSR family of lipid-anchored docking proteins. It is an intermediary between FGF and TRK receptors, and their Ras/MAPK signaling cascades. Human FRS2 is 512 amino acids (aa) in length. It contains a membrane-anchoring myristoylation signal (aa 1-6), a PTB domain that interacts with FGF and NGF receptors (aa 13-115), and a C-terminal Tyr-rich region that serves as a docking site for Grb2 and Shp2 (aa 196-471). One splice form shows a deletion of the C-terminal four amino acids. Over aa 121-449, human FRS2 is 99% and 94% aa identical to dog and mouse FRS2, respectively.

PRODUCT SPECIFIC NOTICES

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