

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse SDNSF/MCFD2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse SDNSF/MCFD2 Met1-Gln145 Accession # Q8K5B2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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
Western Blot	0.1 µg/mL	Recombinant Mouse SDNSF/MCFD2
Immunohistochemistry	5-15 µg/mL	Immersion fixed frozen sections of embryonic mouse brain

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SDNSF, also known as MCFD2 (multiple coagulation factor deficiency 2), was described as a secreted molecule from adult hippocampal neural stem/progenitor cells (ANSC) that functions as an autocrine/paracrine factor to maintain neurogenesis in the central nervous system. It is also a component of the MCFD2-LMAN1 (Mannose-binding lectin-1, also known as ERGIC-53) complex that functions as a specific cargo receptor for the ER to golgi transport of proteins. Mutations in MCFD2 causes factor 5 and factor 8 combined deficiency. Human SDNSF shares 84% and 82% amino acid sequence identity with rat and mouse SDNSF, respectively.