



## ***Anti-human SDNSF/MCFD2 Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** AF2357

**Lot Number:** UFB01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human SDNSF

**Immunogen:** *E. coli*-derived rhSDNSF

**Ig Type:** goat IgG

**Applications:** Direct ELISA  
Western blot

### ***Preparation***

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Stem Cell Derived Neural Stem/Progenitor Cell Supporting Factor (rhSDNSF). Human SDNSF specific IgG was purified by human SDNSF affinity chromatography. 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 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.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### ***Endotoxin Level***

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

### ***Reconstitution***

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for its ability to recognize human SDNSF in direct ELISAs and western blots. In these formats, this antibody shows approximately 35% cross-reactivity with rmSDNSF.

### ***Applications***

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human SDNSF. The detection limit for rhSDNSF is approximately 0.3 ng/well.

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human SDNSF. The detection limit for rhSDNSF is approximately 2 ng/lane under non-reducing and reducing conditions.

**Optimal dilutions should be determined by each laboratory for each application.**