

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse Sulfatase Modifying Factor 2/SUMF2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human (rh) SUMF2 and less than 5% cross-reactivity with rhSUMF1 is observed.                   |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Sulfatase Modifying Factor 2/SUMF2<br>Gln34-Leu308<br>Accession # Q8BPG6                                                                                                                                              |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | 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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Mouse SUMF2 is a 30 kDa member of the sulfatase-modifying factor family. It is synthesized as a 275 amino acid (aa) glycoprotein that is localized to the ER. It contains multiple calcium-binding sites and three (sub)domains of varying length and ill-defined structure (aa 38-298). There is one potential alternate start site at aa 118 that would generate a 190 aa precursor. The founding family member, SUMF1, posttranslationally activates newly synthesized sulfatases by converting a Cysteine to formylGly in the catalytic site. SUMF2 apparently has no such activity. It forms homodimers and heterodimers with SUMF1. As a heterodimer, it downmodulates SUMF1 activity. Mature mouse SUMF2 is 85% and 93% aa identical to human and rat SUMF2, respectively.

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