

## Product datasheet

### SAMD12 RABBIT POLYCLONAL ANTIBODY

**SKU:** MM-0227

100 µL

#### OVERVIEW

**Clonality:**

Polyclonal

**Host:**

Rabbit

**Reactivity:**

Human, Mouse

**Application:**

WB

**Target:**

SamD12

**Target background:**

SamD10 and SamD12 are two recently discovered homolog proteins consisting of a SAM domain. These proteins are also known as Hyphen (HYP) or Aveugle (Ave) and they have been demonstrated to interact with the SAM domain of the Connector enhancer of KSR (CNK) downstream of RAS but a step upstream of RAF. A role for these proteins downstream of EGFR during eye and wing development of *Drosophila* has also been demonstrated. Heterodimerization of CNK/SAM has been shown to facilitate the recruitment of a KSR/MEK complex to CNK and bridge KSR/MEK to RAF which greatly enhances RAS-mediated RAF activation.

**Target alias:**

Sterile alpha motif (SAM) domain-containing protein 12, Hyphen D12, HYPD12, Aveugle

**Specificity:**

The antibody recognizes the protein SamD12. The antibody does not cross-react with SamD10.

**Clone ID:**

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**Preservative:**

None

**Format:**

Lyophilized serum

**Recommend starting dilution:**

If reconstituted with deionized water in 100 µl: WB 1:1000. Optimal dilution has to be determined by the user.

**Limitations:**

Research Use Only

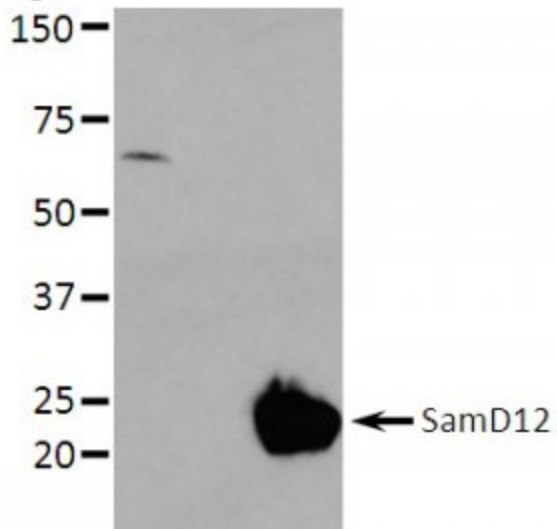
**References:**

- 1.-Clapéron A and Therrien M - KSR and CNK: two scaffolds regulating RAS-mediated RAF activation.
- 2.-Douziech M - A KSR/CNK complex mediated by HYP, a novel SAM domain-containing protein, regulates RAS-dependent RAF activation in Drosophila.
- 3.-Roignant JY - The novel SAM domain protein Aveugle is required for Raf activation in the Drosophila EGF receptor signaling pathway.

**Storage:**

Lyophilized antibodies can be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage (2 years). To avoid freeze-thaw cycles, reconstituted antibodies should be aliquoted before freezing for long-term (1 year) storage (-80°C) or kept at 4°C for short-term usage (2 months). For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made with the assay buffer. After the maximum long-term storage period (2 years lyophilized or 1 year reconstituted) antibodies should be tested in your assay with a standard sample to verify if you have noticed any decrease in their efficacy.

Image:



Western blot analysis of SamD12 expression in human HEK293T transfected cells. (1) empty vector; (2) SamD10; (3) SamD12. (Anti-SamD12 was used at a 1:1000 dilution.)

