

SF2/ASF (D1N3S) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	33	Rabbit IgG	#Q07955	6426

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SF2/ASF (D1N3S) Rabbit mAb recognizes endogenous levels of total SF2/ASF protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val172 of human SF2/ASF protein.

Background

SF2/ASF is a member of the Ser-Arg-rich (SR) protein family of highly conserved nuclear phosphoproteins involved in pre-mRNA splicing (1). Besides its role in nuclear pre-mRNA splicing, SF2/ASF has been shown to shuttle between the nucleus and cytoplasm, suggesting additional roles in mRNA transport and cytoplasmic events (2). SF2/ASF associates with translating ribosomes and stimulates translation (3). It also activates translation initiation by suppressing the activity of 4E-BP1, which is mediated by SF2/ASF association with mTOR and the phosphatase PP2A (4). More recent studies have demonstrated a role for SF2/ASF in microRNA processing (5).

Background References

1. Sreaton, G.R. et al. (1995) *EMBO J* 14, 4336-49.
2. Cáceres, J.F. et al. (1998) *Genes Dev* 12, 55-66.
3. Sanford, J.R. et al. (2004) *Genes Dev* 18, 755-68.
4. Michlewski, G. et al. (2008) *Mol Cell* 30, 179-89.
5. Wu, H. et al. (2010) *Mol Cell* 38, 67-77.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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