

Anti-Asymmetric Dimethylarginine of TLS/FUS (R216, R218), Human, Mouse-mono

Catalog Number: #FDV-0006 (25 µg) or #FDV-0007 (100 µg)

Product Name: Anti-Asymmetric Dimethylarginine of TLS/FUS (R216, R218), Human, Mouse-mono

Intended Use: For Research Use Only. Not for diagnostic or other use.

Host: Mouse

Clone No: 2B12

Specificity: This antibody recognizes asymmetric dimethylarginine (R216, R218) of TLS/FUS. This antibody does not cross-react against symmetric dimethylarginine of TLS/FUS, and non-methylated TLS/FUS.

Subclass: IgG

Storage Buffer: Phosphate buffered saline, pH7.2, no preservative added

Purification: Protein G Purified

Concentration: 0.5 mg/ml

Cross Reactivity: Human, Mouse, Hamster (CHO cell) – Not yet tested in other species.

Immunogen: Synthetic CGGR^{me2a}GR^{me2a}GGSG

Application: WB (1:500 – 1:2000) , IP

Storage: Store below -20°C. Avoid repeated freeze-thaw cycles.

Size: 25 µg (#FDV-0006) or 100 µg (#FDV-0007)

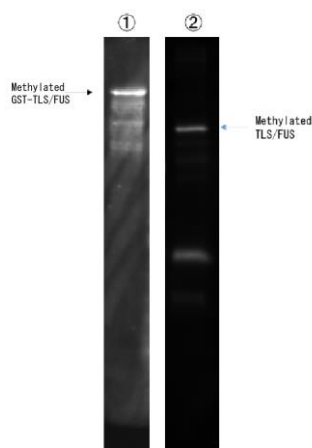
Lot Number: See vial label

Background

Arginine methylation is one of posttranslational modifications. Arginine can be methylated once (monomethylated arginine) or twice (dimethylated arginine). Dimethylation can be further categorized symmetric (me2s) and asymmetric (me2a).

TLS/FUS (Translocated in LipoSarcoma/Fused in Sarcoma) is known as one of causative genes for familial amyotrophic lateral sclerosis. Especially, it is reported that four arginine residues in TLS/FUS (R216, R218, R242, and R394) are constitutively dimethylated by protein arginine methyltransferases. However, the function of methylated TLS/FUS is still unclear.

Application

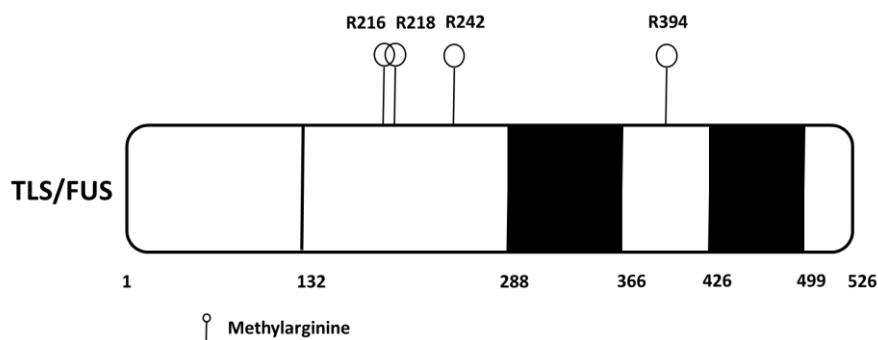


Lane1: Recombinant GST-TLS/FUS methylated using PRMT1 in the presence of SAM (20 µM) *in vitro*.

Lane2: Cell extract from CHO cells immunoprecipitated with rabbit polyclonal anti-TLS/FUS antibody (Bethyl Laboratories, #A300-302A).

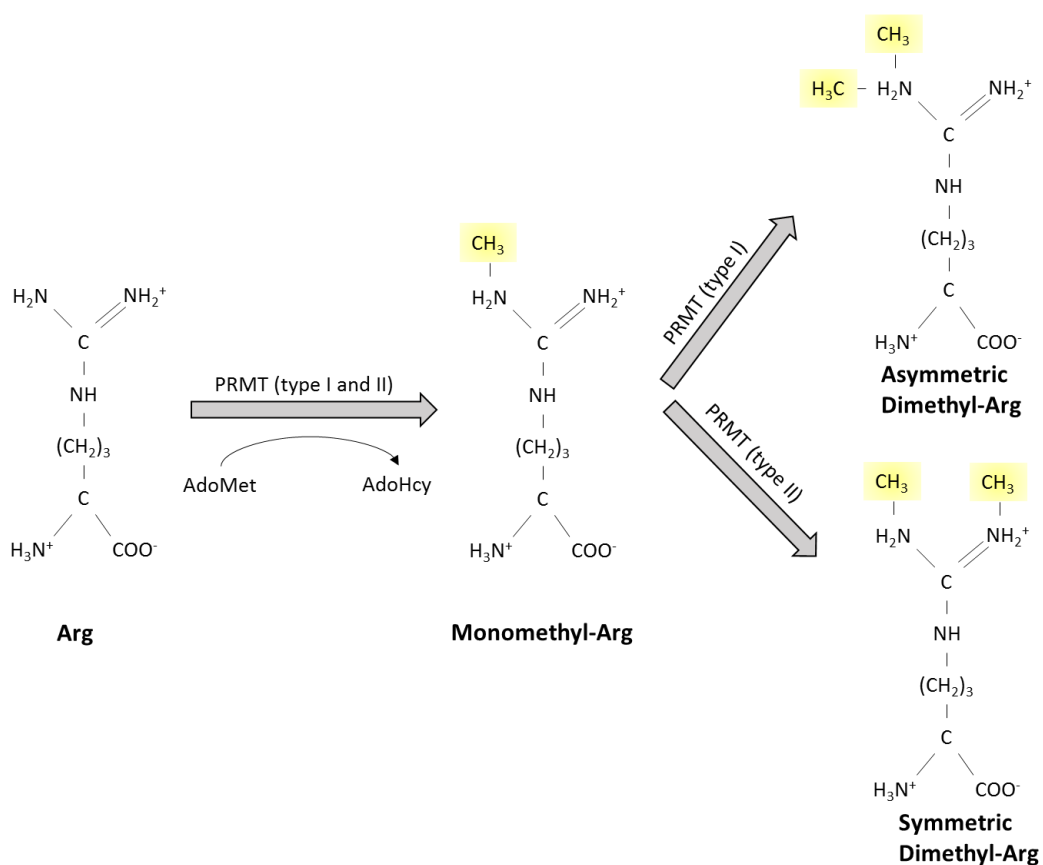
※It is hard to detect the specific band for methylated TLS/FUS with crude lysate sample. We recommend to do immunoprecipitation using polyclonal anti-TLS/FUS antibody prior to WB.

Arginine methylation of TLS/FUS



Du et al., *Biochem Biophys Res Commun.* 2011 Jan 28;404(4):991-6.

Type of arginine methylation



Reference

- 1) Fujimoto K and Kurokawa R, *Cell Biosci.* 2014 Dec 10;4:77. doi: 10.1186/2045-3701-4-77.

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