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pan-Mono-MethylR□R*GG□Motif Rabbit pAb

Catalog No.: A18297

Basic Information

Observed MW
16-120kDa

Calculated MW

Category
Primary antibody

Applications
WB,DB,ELISA

Cross-Reactivity
Human, Mouse, Rat

Background

Arginine methylation is a common posttranslational modification that is found on both histone and non-histone proteins. Three types of arginine methylation exist in mammalian cells: monomethylarginine (MMA), asymmetric dimethylarginine (ADMA) and symmetric dimethylarginine (SDMA). The most prevalent is omega-NG,NG-dimethylarginine. Here, two methyl groups are placed on one of the terminal nitrogen atoms of the guanidino group; this derivative is commonly referred to as asymmetric dimethylarginine (ADMA). Two other derivatives occur at levels of about 20% to 50% that of ADMA. These include the symmetric dimethylated derivative, where one methyl group is placed on each of the terminal guanidino nitrogens and the monomethylated derivative with a single methyl group on the terminal nitrogen atom . These three derivatives are present on a multitude of distinct protein species in the cytoplasm, nucleus, and organelles of mammalian cells. Methylated arginine residues in proteins are often flanked by one or more glycine residues, but there are many exceptions to this general rule.

Recommended Dilutions

WB	1:500 - 1:1000
DB	1:500 - 1:1000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID **Swiss Prot**

Immunogen
A synthetic peptide corresponding to a sequence containing monomethylated R.

Synonyms

Contact

400-999-6126

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Product Information

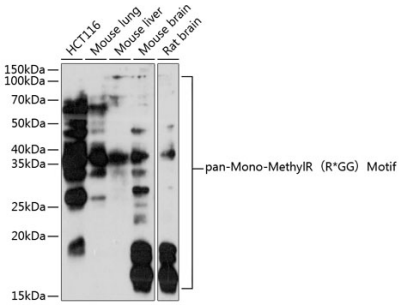
Source
Rabbit

Isotype
IgG

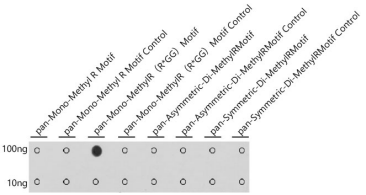
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

Validation Data



Western blot analysis of various lysates using pan-Mono-MethylR□R*GG□Motif pAb (A18297) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Dot-blot analysis of all sorts of peptides using pan-Mono-MethylR□R*GG□Motif Rabbit pAb (A18297) at 1:1000 dilution.