

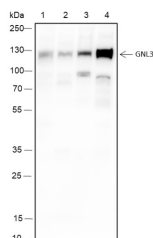
Recombinant MPP8 Monoclonal Antibody

catalog number: AN301602L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Reactivity	Mouse
Immunogen	Recombinant human MPP8 fragment
Host	Rabbit
Isotype	IgG, κ
Clone	C531225
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.
Applications	
Recommended Dilution	
WB	1:500-1:1000

Data



Western Blot with MPP8 Monoclonal Antibody at dilution of 1:1000. Lane 1: MEF, Lane 2: Mouse E12 brain, Lane 3: 4T1, Lane 4: F9

Observed-MW:125 kDa

Calculated-MW:110 kDa

Preparation & Storage	
Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Heterochromatin component that specifically recognizes and binds methylated 'Lys-9' of histone H3 (H3K9me) and promotes recruitment of proteins that mediate epigenetic repression. Mediates recruitment of the HUSH complex to H3K9me3 sites: the HUSH complex is recruited to genomic loci rich in H3K9me3 and is required to maintain transcriptional silencing by promoting recruitment of SETDB1, a histone methyltransferase that mediates further deposition of H3K9me3, as well as MORC2. Binds H3K9me and promotes DNA methylation by recruiting DNMT3A to target CpG sites; these can be situated within the coding region of the gene. Mediates down-regulation of CDH1 expression. Also represses L1 retrotransposons in collaboration with MORC2 and, probably, SETDB1, the silencing is dependent of repressive epigenetic modifications, such as H3K9me3 mark. Silencing events often occur within introns of transcriptionally active genes, and lead to the down-regulation of host gene expression.

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