



JMJD6 (N-terminus) Antibody

E2200058**Size** 100ug**Cat code** E2200058**Species Cross-reactivity** H**Key Application** WB: 1:500~1:2000 ICC: 1:50~1:200**Host** Mouse**Antibody type** Monoclonal antibody**Purified method** Affinity purified**Isotype** IgG1**Molecular Weight** 62kDa

Sensitivity This antibody detects endogenous levels of JMJD6(N-terminus) and does not cross-react with related proteins.

Immunogen Purified recombinant human JMJD6(N-terminus) fragments expressed in E.coli.

UniProt Number Q6NYC1

GeneBank ID NM_001081461

Subcellular location Nucleus

Formulation Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

Altername jumonji domain containing 6;Lysyl-hydroxylase JMJD6;Phosphatidylserine receptor;PTDSR;KIAA0585;Histone arginine demethylase JMJD6;JmjC domain-containing protein 6;PSR;Peptide-lysine 5-dioxygenase JMJD6;Protein PTDSR

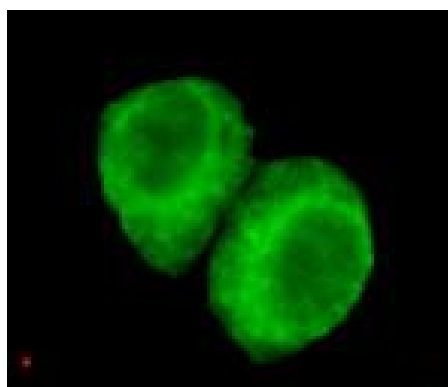
Gene_symbol PSR; PTDSR; PTDSR1

UniPort summary Function Dioxygenase that can both act as a histone arginine demethylase and a lysyl-hydroxylase. Acts as a lysyl-hydroxylase that catalyzes 5-hydroxylation on specific lysine residues of target proteins such as U2AF2/U2AF65 and LUC7L2. Acts as a regulator of RNA splicing by mediating 5-hydroxylation of U2AF2/U2AF65, affecting the pre-mRNA splicing activity of U2AF2/U2AF65. In addition to peptidyl-lysine 5-dioxygenase activity, may act as a RNA hydroxylase, as suggested by its ability to bind single strand RNA. Also acts as an arginine demethylase which demethylates histone H3 at 'Arg-2' (H3R2me) and histone H4 at 'Arg-3' (H4R3me), thereby playing a role in histone code. However, histone arginine demethylation may not constitute the primary activity in vivo. Has no histone lysine demethylase activity. Required for differentiation of multiple organs during embryogenesis. Acts as a key regulator of hematopoietic differentiation: required for angiogenic sprouting by regulating the pre-mRNA

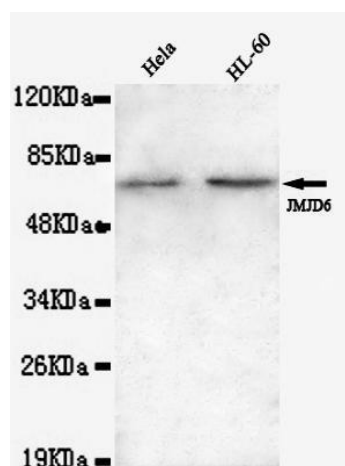
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splicing activity of U2AF2/U2AF65. Seems to be necessary for the regulation of macrophage cytokine responses.

Entrez summary This gene encodes a nuclear protein with a JmjC domain. JmjC domain-containing proteins are predicted to function as protein hydroxylases or histone demethylases. This protein was first identified as a putative phosphatidylserine receptor involved in phagocytosis of apoptotic cells; however, subsequent studies have indicated that it does not directly function in the clearance of apoptotic cells, and questioned whether it is a true phosphatidylserine receptor. Multiple transcript variants encoding different isoforms have been found for this gene.



Immunocytochemistry of HeLa cells using anti-JMJD6(N-terminus) antibody diluted 1:200.



Western blot detection of JMJD6(N-terminus) antibody in HeLa&HL-60 lysates using JMJD6(N-terminus) antibody (1:1000 diluted). Predicted band size: 46KDa Observed band size: 62KDa.