



HMGA2 Rabbit mAb

Catalog No	YP-rAb-17253
Isotype	IgG
Reactivity	Human,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	HMGA2 HMGIC
Protein Name	High mobility group protein HMGI-C (High mobility group AT-hook protein 2)
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	
Observed Band	18kD
Calculated Molecular Weight	12kD
Cell Pathway	Nucleus.
Tissue Specificity	Aorta endothelial cell,Hepatoma,
Function	developmental stage:Expressed predominantly during embryogenesis.,Disease:A chromosomal aberration involving HMGA2 is associated with a subclass of benign mesenchymal tumors known as lipomas. Translocation t(3;12)(q27-q28;q13-q15) with LPP is shown in lipomas. HMGA2 is also fused with a number of other genes in lipomas.,Disease:A chromosomal aberration involving HMGA2 is associated with parosteal lipomas. Translocation t(3;12)(q28;q14) with LPP is also shown in one parosteal lipoma.,Disease:A chromosomal aberration involving HMGA2 is associated with pulmonary chondroid hamartomas. Translocation t(3;12)(q27-q28;q14-q15) with LPP is detected in pulmonary chondroid hamartomas.,Disease:A chromosomal aberration involving HMGA2 is found in uterine leiomyoma (UL) [MIM:150699]. Translocation t(12;14)(q15;q23-24) with RAD51L1. Chromosomal rearrangements involving HMGA2 do not seem to be the principle pathobiological mechanism in uterine





leiomyoma.,Function:Functions as a transcriptional regulator. Functions in cell cycle regulation through CCNA2.,polymorphism:Genetic variation in HMGA2 has been associated with stature as a quantitative trait (STQTL9) [MIM:611547]. Human height is a classic, highly heritable quantitative trait.,PTM:Regulated by cell cycle-dependent phosphorylation which alters its DNA binding affinity.,similarity:Belongs to the HMGA family.,similarity:Contains 3 A.T hook DNA-binding domains.,subunit:Interacts with E4F1.,

Background

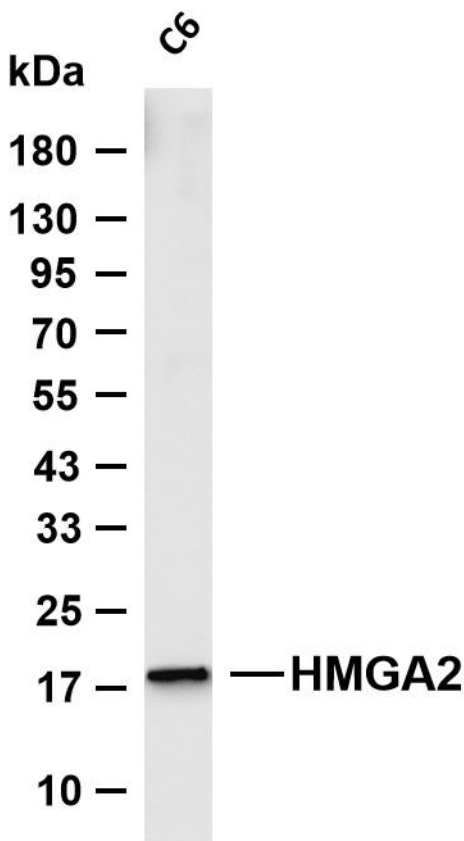
This gene encodes a protein that belongs to the non-histone chromosomal high mobility group (HMG) protein family. HMG proteins function as architectural factors and are essential components of the enhancesome. This protein contains structural DNA-binding domains and may act as a transcriptional regulating factor. Identification of the deletion, amplification, and rearrangement of this gene that are associated with myxoid liposarcoma suggests a role in adipogenesis and mesenchymal differentiation. A gene knock out study of the mouse counterpart demonstrated that this gene is involved in diet-induced obesity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HMGA2 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: C6 Predicted band size: 12kDa Observed band size: 18kDa

