



PADI4 Rabbit mAb

Catalog No	YP-rAb-16909
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	PAD4 PADI5 PDI5
Protein Name	Protein-arginine deiminase type-4
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	PADI4;Protein-arginine deiminase type-4;PADI4 ; PAD4 ; PADI5 ; PDI5 ; HL-60 PAD ; Peptidylarginine deiminase IV ; Protein-arginine deiminase type IV ;PAD4 PADI5 PDI5
Observed Band	80kD
Calculated Molecular Weight	74kD
Cell Pathway	Cytoplasm . Nucleus . Cytoplasmic granule . Cytoplasmic granules of eosinophils and neutrophils. .
Tissue Specificity	Expressed in eosinophils and neutrophils, not expressed in peripheral monocytes or lymphocytes.
Function	Catalyzes the citrullination/deimination of arginine residues of proteins such as histones, thereby playing a key role in histone code and regulation of stem cell maintenance (PubMed:15339660, PubMed:15345777, PubMed:16567635, PubMed:21245532). Citrullinates histone H1 at 'Arg-54' (to form H1R54ci), histone H3 at 'Arg-2', 'Arg-8', 'Arg-17' and/or 'Arg-26' (to form H3R2ci, H3R8ci, H3R17ci, H3R26ci, respectively) and histone H4 at 'Arg-3' (to form H4R3ci) (PubMed:15339660, PubMed:15345777, PubMed:16567635, PubMed:21245532). Acts as a key regulator of stem cell maintenance by mediating citrullination of histone H1: citrullination of 'Arg-54' of histone H1 (H1R54ci) results in H1 displacement from chromatin and global chromatin decondensation, thereby promoting pluripotency and stem cell maintenance (PubMed:15339660, PubMed:15345777, PubMed:16567635,



杭州臻优品生物科技有限公司

热销产品:

蛋白、一抗、抗体对、ELISA试剂盒、生化试剂盒
CCK8试剂盒、QPCR检测试剂盒

检测服务:

ELISA检测及定制服务 | 生化检测 | PCR、QPCR检测 | WB检测
ICO-IP检测 | 切片 | 染色 | 免疫组化 | 免疫荧光 | 透射电镜全套
| 宏基因组、转录组、基因组、蛋白组、代谢组测序



关注官网



关注客服



PubMed:21245532). Promotes profound chromatin decondensation during the innate immune response to infection in neutrophils by mediating formation of H1R54ci (PubMed:18209087). Required for the formation of neutrophil extracellular traps (NETs); NETs are mainly composed of DNA fibers and are released by neutrophils to bind pathogens during inflammation (By similarity). Citrullination of histone H3 prevents their methylation by CARM1 and HRMT1L2/PRMT1 and represses transcription (PubMed:15345777). Citrullinates EP300/P300 at 'Arg-2142', which favors its interaction with NCOA2/GRIP1 (PubMed:15731352).

Background

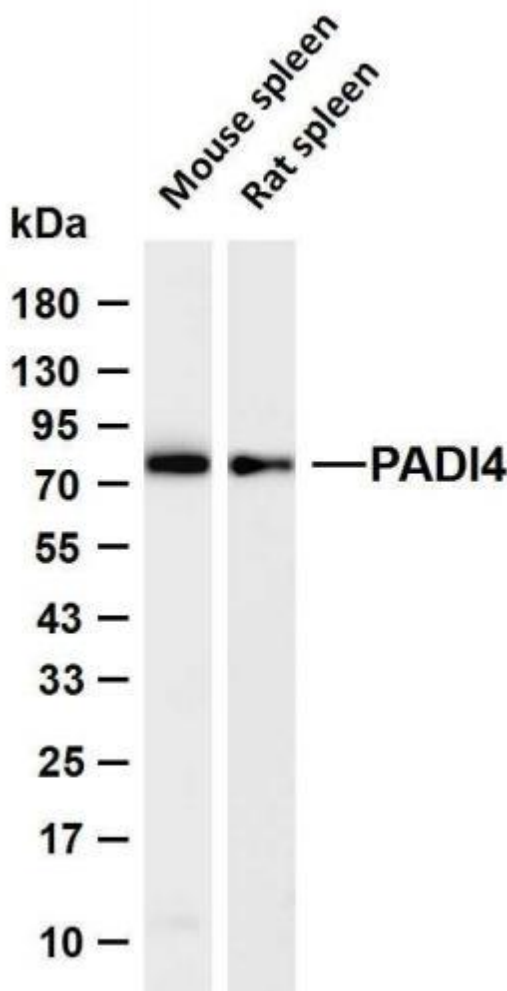
This gene is a member of a gene family which encodes enzymes responsible for the conversion of arginine residues to citrulline residues. This gene may play a role in granulocyte and macrophage development leading to inflammation and immune response. [provided by RefSeq, Jul 2008]

matters needing attention

Avoid repeated freezing and thawing!

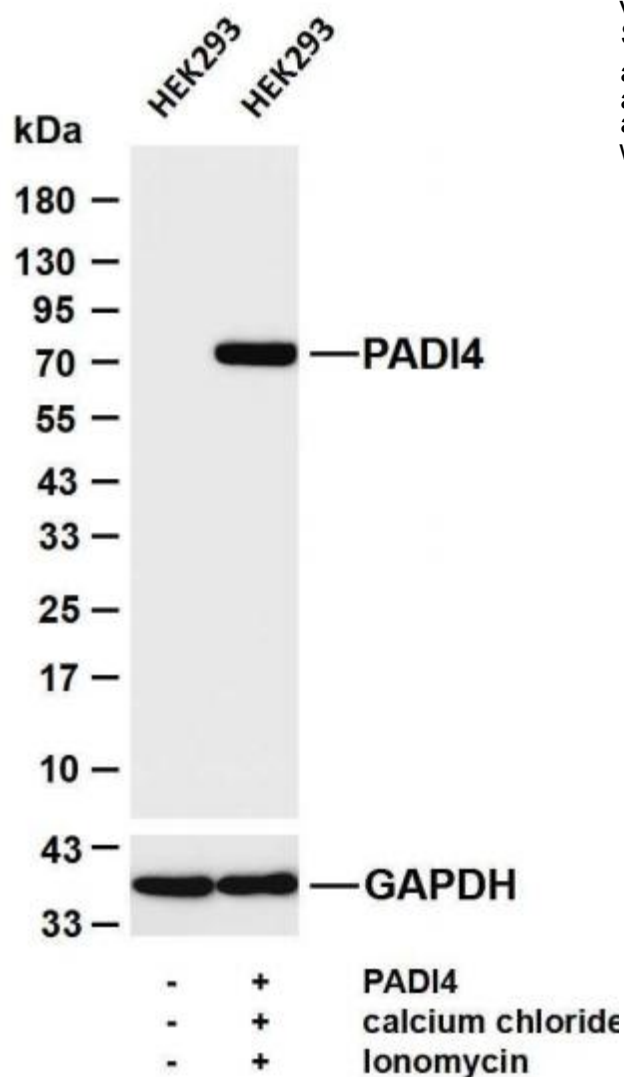
Usage suggestions

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-PADI4 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Mouse spleen Lane 2: Rat spleen
Predicted band size: 74kDa Observed band size: 80kDa





Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PADI4 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: HEK293 transfected with PADI4 treated with 10 mM calcium chloride and 10 μ M Ionomycin for 4 hou

