ARG30314
Chondrogenesis Marker Antibody Panel

Package: 1 kit
Store at: -20°C

Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG57983	anti-CDKN2A / p16INK4a antibody	Rabbit pAb	Hu	FACS, ICC/IF, IHC-P, IP, WB	50 µl
ARG63341	anti-FOXC1 antibody	Goat pAb	Hu	FACS, ICC/IF, IHC-P	50 µg
ARG63332	anti-FOXC2 antibody	Goat pAb	Hu	FACS, IHC-P, WB	50 µg
ARG62852	anti-CD44 antibody [MEM-263]	Mouse mAb	Hu, Dog, Pig	FACS, IHC-P, IP, WB	50 µg
ARG65350	Goat anti-Mouse IgG antibody (HRP)	Goat pAb	Ms	ELISA, IHC-P, WB	50 µl
ARG65351	Goat anti-Rabbit IgG antibody (HRP)	Goat pAb	Rb	ELISA, IHC-P, WB	50 µl
ARG65352	Donkey anti-Goat IgG antibody (HRP)	Donkey pAb	Goat	ELISA, IHC-P, WB	50 µl

Summary

Product Description

Chondrogenesis is a process involving Mesenchymal Stem Cells (MSCc) condensation leading to chondroprogenitor cell differentiation. The main function of chondrogenensis is to generate cartilage during fetal development, and gradually replacing cartilage with bone at adulthood.
Transcription factor SOX9, FOXC1 and FOXC2 are critical for driving chondrocyte differentiation. Hyaluronan receptor CD44 plays important role in cell-matrix interaction during chondrogenesis and matrix assembly.

Hardinghan et al (2006). J Anat 209(4): 469-80
Wilm et al (2004). Dev Biol 271:176-189
Knudson CB (2003). Birth Defects Res C Embryo Today 69(2):174-96

Target Name

Chondrogenesis Marker

Alternate Names

Chondrogenesis Marker antibody; CDKN2A / p16INK4a antibody; CD44 antibody; FOXC2 antibody; FOXC1 antibody

Properties

Storage instruction

For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

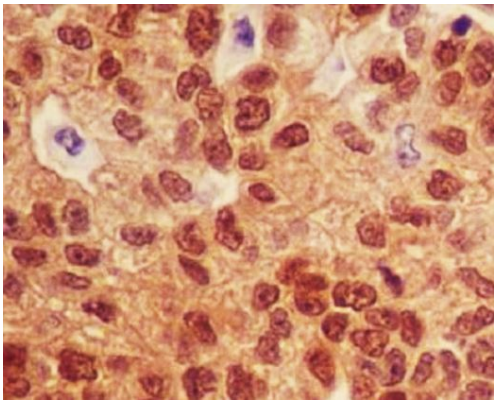
Gene Full Name

Antibody Panel for Chondrogenesis Marker

Highlight

Related Product:
anti-CDKN2A / p16INK4a antibody;
anti-FOXC1 antibody;

Images



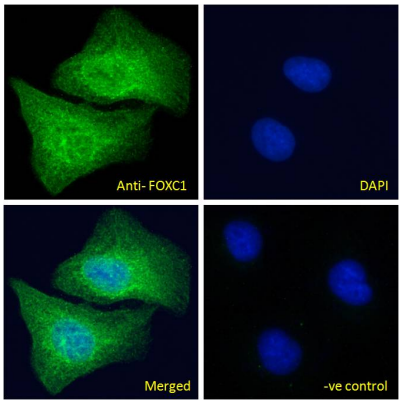
ARG57983 anti-CDKN2A / p16INK4a antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric stained with ARG57983 anti-CDKN2A / p16INK4a antibody.

293T

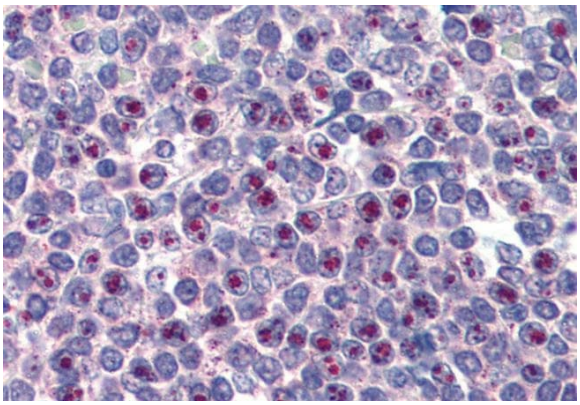
ARG57983 anti-CDKN2A / p16INK4a antibody WB image

Western blot: 293T cell lysate stained with ARG57983 anti-CDKN2A / p16INK4a antibody.



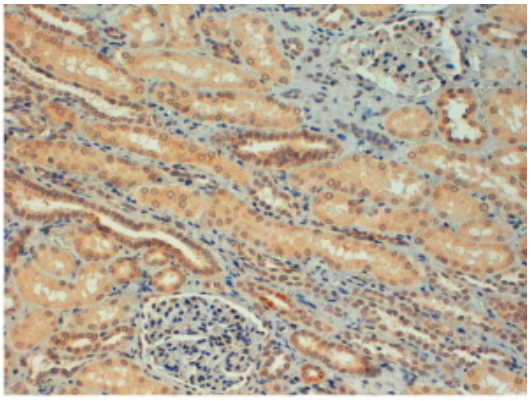
ARG63341 anti-FOXC1 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U2OS cells permeabilized with 0.15% Triton. Cells were stained with ARG63341 anti-FOXC1 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



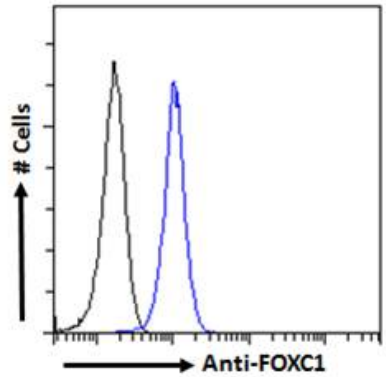
ARG63341 anti-FOXC1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human spleen tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63341 anti-FOXC1 antibody at 3.75 µg/ml dilution followed by AP-staining.



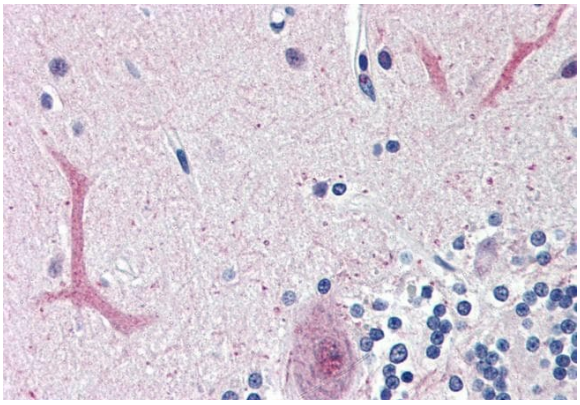
ARG63341 anti-FOXC1 antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Kidney. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63341 anti-FOXC1 antibody at 4 µg/ml dilution followed by HRP-staining.



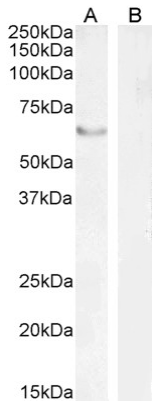
ARG63341 anti-FOXC1 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed HEK293 cells permeabilized with 0.5% Triton. Cells were stained with ARG63341 anti-FOXC1 antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



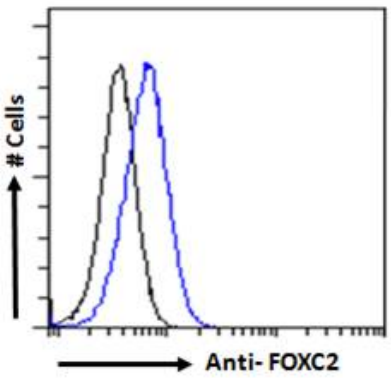
ARG63341 anti-FOXC1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cerebellum tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63341 anti-FOXC1 antibody at 3.75 µg/ml dilution followed by AP-staining.



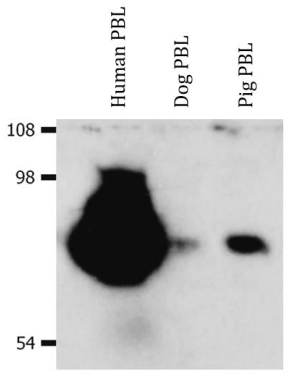
ARG63332 anti-FOXC2 antibody WB image

Western blot: 35 µg of HEK293 nucleus (A) and Human pancreas (B, negative control) lysates (in RIPA buffer) stained with ARG63332 anti-FOXC2 antibody at 2 µg/ml (A) and 1 µg/ml (B) dilutions and incubated at RT for 1 hour.



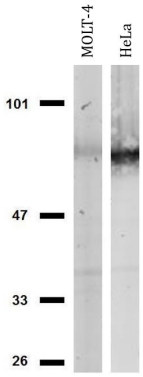
ARG63332 anti-FOXC2 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed HEK293 cells permeabilized with 0.5% Triton. Cells were stained with ARG63332 anti-FOXC2 antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



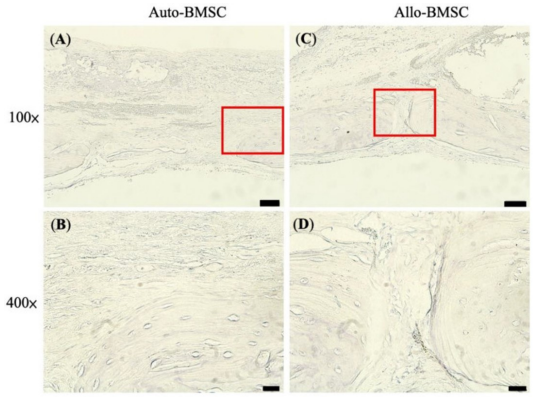
ARG62852 anti-CD44 antibody [MEM-263] WB image

Western blot: Isolated peripheral blood lymphocytes (PBL) of various species. Human PBL, Dog PBL and Pig PBL lysates stained with ARG62852 anti-CD44 antibody [MEM-263], in non-reducing conditions.



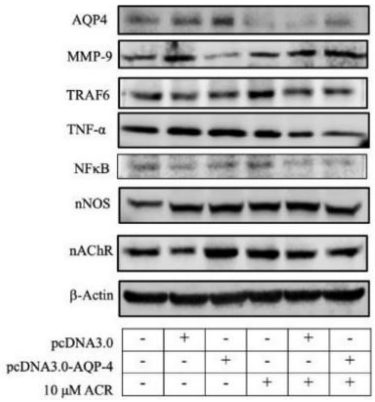
ARG62852 anti-CD44 antibody [MEM-263] WB image

Western blot: MOLT-4 and HeLa cell lysates stained with ARG62852 anti-CD44 antibody [MEM-263], in non-reducing conditions.



ARG65350 Goat anti-Mouse IgG antibody (HRP) IHC-P image

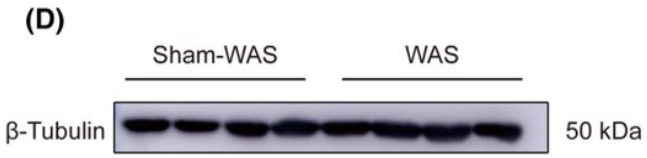
From Cheng-Feng Chu et al. J Pers Med. (2021), doi: 10.3390/jpm11121326, Fig. 6.



ARG65350 Goat anti-Mouse IgG antibody (HRP) WB image

Western blot: Neuro-2a stained with ARG22361 anti-Aquaporin 4 antibody , ARG40638 anti-MMP9 antibody and ARG65350 Goat anti-Mouse IgG antibody (HRP).

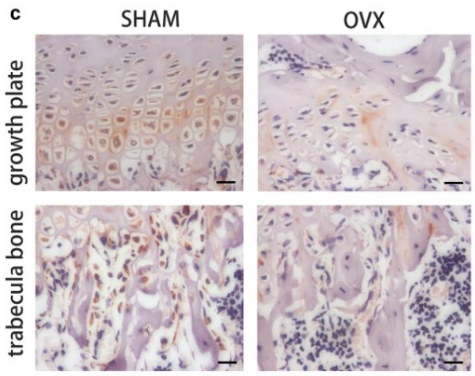
From Hung CY et al. Molecules (2022), doi: 10.3390/molecules27031066, Fig. 6A.



ARG65350 Goat anti-Mouse IgG antibody (HRP) WB image

Western blot: Rat basolateral amygdala stained with ARG62347 anti-beta Tubulin antibody [BT7R] at 1:1000 dilution, ARG65350 Goat anti-Mouse IgG antibody (HRP) at 1:5000 dilution.

From Guang-Bing Duan et al. CNS Neurosci Ther. (2024), doi: 10.1111/cns.14611, Fig. 4.D.



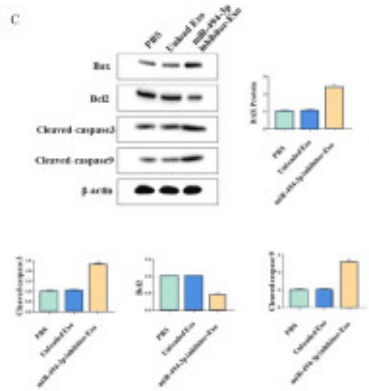
ARG65351 Goat anti-Rabbit IgG antibody (HRP) IHC-P image

From Yu-Qian Song et al. J Mol Med (Berl) (2022), doi: 10.1007/s00109-021-02165-0, Fig. 5.c.

ARG65351 Goat anti-Rabbit IgG antibody (HRP) WB image

Western blot: HK2 stained with ARG66421 anti-CXCL12 / SDF1 antibody [SQab18123] and ARG10112 anti-GAPDH antibody [6C5] and secondary antibody used ARG65351 Goat anti-Rabbit IgG antibody (HRP).

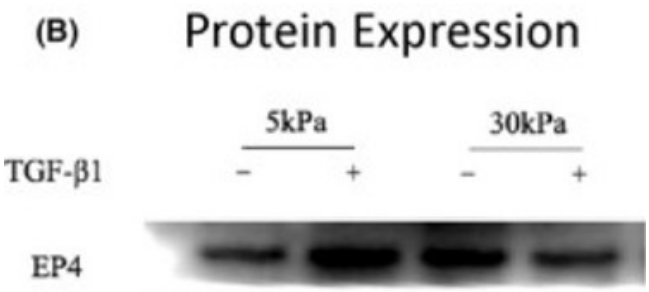
From Zhou Y et al. Central European Journal of Immunology (2022), doi: 10.5114/ceji.2022.115628, Fig. 2. E.



ARG65351 Goat anti-Rabbit IgG antibody (HRP) WB image

Western blot: Gastric cancer cells stained with ARG66247 anti-Bax antibody, ARG55188 anti-Bcl 2 antibody, ARG57512 anti-Caspase 3 (cleaved) antibody and ARG62346 anti-beta Actin antibody [BA3R]. Secondary Antibody stained with ARG65351 Goat anti-Rabbit IgG antibody (HRP).

From Limin Zhang et al. Heliyon (2024), doi: 10.1016/j.heliyon.2024.e30803, Fig. 4. C.



ARG65352 Donkey anti-Goat IgG antibody (HRP) WB image

Western blot: Endometrial Stromal cells stained with ARG63922 anti-EP4 prostaglandin Receptor antibody at 1:1000 dilution and ARG65352 Donkey anti-Goat IgG antibody (HRP).

From Qingqing Huang et al. Reprod Med Biol. (2021), doi: 10.1002/rmb2.12423, Fig. 3.C.