
Product Name: KD-Validated DPPA4 Mouse Monoclonal Antibody**Catalog #: KVA01164**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 33.5kDa

Antigen Information

Gene Name	DPPA4
Alternative Names	DPPA4; Developmental Pluripotency Associated 4; Developmental Pluripotency-Associated Protein 4; FLJ10713; 2410091M23Rik
Gene ID	55211.0
SwissProt ID	Q7L190
Immunogen	Recombinant protein of human DPPA4

Background

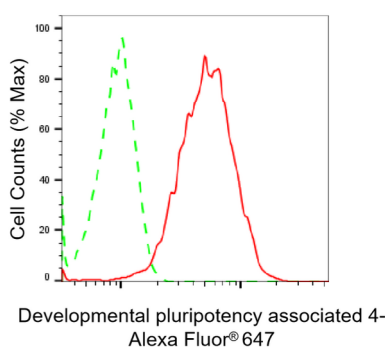
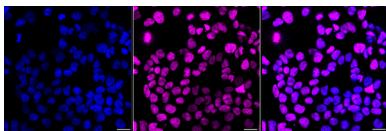
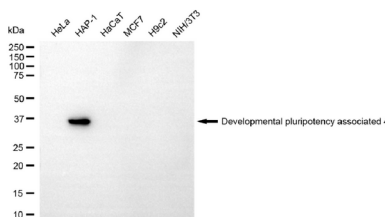
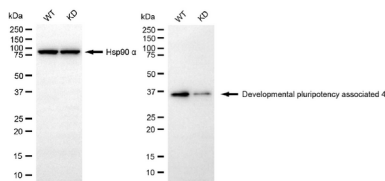
This gene encodes a nuclear factor that is involved in the maintenance of pluripotency in stem cells and essential for embryogenesis. The encoded protein has a scaffold-attachment factor A/B, acinus and PIAS (SAP) domain that binds DNA and is thought to modify chromatin. Mice with a homozygous knockout of the orthologous gene die during late embryonic

development or within hours after birth. Knockout embryos are normal in size at embryonic day 18.5 but exhibit skeletal and lung tissue abnormalities. This gene, when mutated, is highly expressed in embryonal carcinomas, pluripotent germ cell tumors, and other cancers and is thought to play an important role in tumor progression. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]

Research Area

Cancer

Image Data



Western blotting analysis using developmental pluripotency associated 4 antibody (KVA01164). Developmental pluripotency associated 4 expression in wild-type (WT) and developmental pluripotency associated 4 (DPPA4) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with developmental pluripotency associated 4 antibody (KVA01164, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

Western blotting analysis using developmental pluripotency associated 4 antibody (KVA01164). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with developmental pluripotency associated 4 antibody (KVA01164, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

Immunocytochemical staining of HAP-1 cells with Developmental pluripotency associated 4 antibody (KVA01164, 1:1,000). Nuclei were stained blue with DAPI; Developmental pluripotency associated 4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.

Flow cytometric analysis of Developmental pluripotency associated 4 expression in HAP-1 cells using Developmental pluripotency associated 4 antibody (KVA01164, 1:1,000). Green, isotype control; red, Developmental pluripotency associated 4.