

**Product Name:** KD-Validated DAZ Associated Protein 1 Recombinant Rabbit Monoclonal Antibody

**Catalog #:** KVA00764

For research use only.

## Summary

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

## Application

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 43.4kDa                                  |

## Antigen Information

|                          |                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | DAZAP1                                                                                                                                                                                          |
| <b>Alternative Names</b> | DAZAP1; DAZ Associated Protein 1; Deleted In Azoospermia-Associated Protein 1; DAZ-Associated Protein 1; MGC19907; Deleted In Azoospermia Associated Protein 1; Testicular Tissue Protein Li 50 |
| <b>Gene ID</b>           | 26528.0                                                                                                                                                                                         |
| <b>SwissProt ID</b>      | Q96EP5                                                                                                                                                                                          |
| <b>Immunogen</b>         | Recombinant protein of human DAZAP1                                                                                                                                                             |

## Background

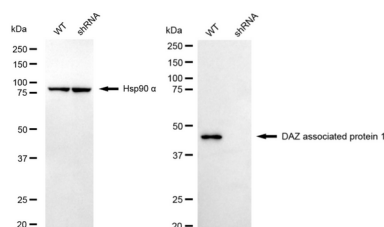
In mammals, the Y chromosome directs the development of the testes and plays an important role in spermatogenesis. A high

percentage of infertile men have deletions that map to regions of the Y chromosome. The DAZ (deleted in azoospermia) gene cluster maps to the AZFc region of the Y chromosome and is deleted in many azoospermic and severely oligospermic men. It is thought that the DAZ gene cluster arose from the transposition, amplification, and pruning of the ancestral autosomal gene DAZL also involved in germ cell development and gametogenesis. This gene encodes a RNA-binding protein with two RNP motifs that was originally identified by its interaction with the infertility factors DAZ and DAZL. Two isoforms are encoded by transcript variants of this gene. [provided by RefSeq, Jul 2008]

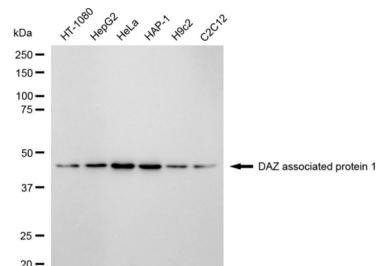
## Research Area

Epigenetics and Nuclear Signaling

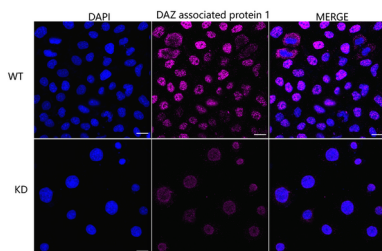
## Image Data



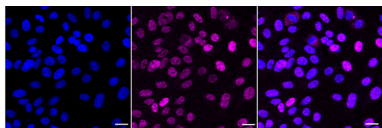
Western blotting analysis using DAZ associated protein 1 antibody (KVA00764). DAZ associated protein 1 expression in wild-type (WT) and DAZ associated protein 1 (DAZAP1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with DAZ associated protein 1 antibody (KVA00764, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



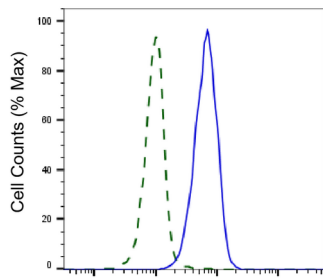
Western blotting analysis using DAZ associated protein 1 antibody (KVA00764). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DAZ associated protein 1 antibody (KVA00764, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using DAZ associated protein 1 antibody (KVA00764, 1:1,000). Top panel: wild-type (WT); Bottom panel: DAZ associated protein 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; DAZ associated protein 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

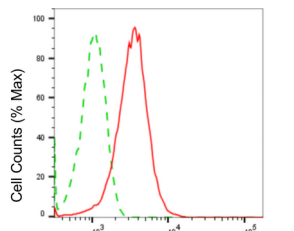


Immunocytochemical staining of HepG2 cells with DAZ associated protein 1 antibody (KVA00764, 1:1,000). Nuclei were stained blue with DAPI; DAZ associated protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.



DAZ associated protein 1-Alexa Fluor® 647

Validation of DAZ associated protein 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with DAZ associated protein 1 antibody (KVA00764, 1:2,000) and analyzed using BD flow cytometer.



DAZ associated protein 1-Alexa Fluor® 647

Flow cytometric analysis of DAZ associated protein 1 expression in HepG2 cells using DAZ associated protein 1 antibody (KVA00764, 1:2,000). Green, isotype control; red, DAZ associated protein 1.