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Product datasheet

Anti-Wilms Tumor Protein antibody [6F-H2] - BSA and Azide free ab212951

2 References 1 Image

Overview

Product name	Anti-Wilms Tumor Protein antibody [6F-H2] - BSA and Azide free
Description	Mouse monoclonal [6F-H2] to Wilms Tumor Protein - BSA and Azide free
Host species	Mouse
Specificity	ab212951 is also expected to recognise isoforms 2, 3, 4, 7 and 8 of Human Wilms Tumor Protein, and identifies Wilms Tumor Protein lacking exon 2-encoded amino acids.
Tested applications	**Suitable for:** Flow Cyt, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human Wilms Tumor Protein aa 1-181. Sequence: MGSDVRDLNA LLPAVPSLGG GGGCALPVSG AAQWAPVLDF APPGASAYGS LGGPAPPPAP PPPPPPPPHS FIKQEPSWGG AEPHEEQCLS AFTVHFSGQF TGTAGACRYG PFGPPPPSQA SSGQARMFPN APYLPSCLES QPAIRNQGYS TVTFDGTPSY GHTPSHHAAQ FPNHSFKHED P Database link: P19544 Run BLAST with Run BLAST with
Positive control	K562 cells. Wilm's Tumor, mesothelioma or fetal kidney.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	Purified from bioreactor concentrate

Clonality	Monoclonal
Clone number	6F-H2
Isotype	IgG1
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab212951** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

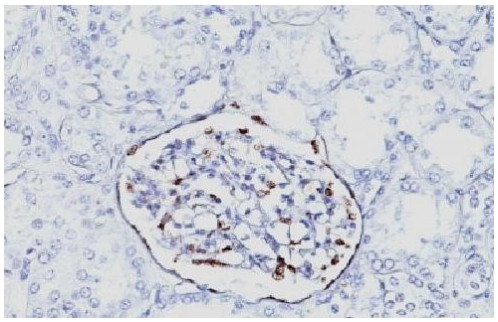
Application	Abreviews	Notes
Flow Cyt		Use 0.5-1µg for 10^6 cells.
IHC-P		Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.5 - 1 µg/ml.

Target

Function	Transcription factor that plays an important role in cellular development and cell survival. Regulates the expression of numerous target genes, including EPO. Plays an essential role for development of the urogenital system. Recognizes and binds to the DNA sequence 5'-CGCCCCCGC-3'. It has a tumor suppressor as well as an oncogenic role in tumor formation. Function may be isoform-specific: isoforms lacking the KTS motif may act as transcription factors. Isoforms containing the KTS motif may bind mRNA and play a role in mRNA metabolism or splicing. Isoform 1 has lower affinity for DNA, and can bind RNA.
Tissue specificity	Expressed in the kidney and a subset of hematopoietic cells.
Involvement in disease	Defects in WT1 are the cause of Frasier syndrome (FS) [MIM:136680]. FS is characterized by a slowly progressing nephropathy leading to renal failure in adolescence or early adulthood, male pseudohermaphroditism, and no Wilms tumor. As for histological findings of the kidneys, focal glomerular sclerosis is often observed. There is phenotypic overlap with Denys-Drash syndrome. Inheritance is autosomal dominant. Defects in WT1 are the cause of Wilms tumor 1 (WT1) [MIM:194070]. WT is an embryonal malignancy of the kidney that affects approximately 1 in 10'000 infants and young children. It occurs both in sporadic and hereditary forms. Defects in WT1 are the cause of Denys-Drash syndrome (DDS) [MIM:194080]. DDS is a typical nephropathy characterized by diffuse mesangial sclerosis, genital abnormalities, and/or Wilms tumor. There is phenotypic overlap with WAGR syndrome and Frasier syndrome. Inheritance is autosomal dominant, but most cases are sporadic. Defects in WT1 are the cause of nephrotic syndrome type 4 (NPHS4) [MIM:256370]. A renal disease characterized clinically by proteinuria, hypoalbuminemia, hyperlipidemia and edema. Kidney biopsies show non-specific histologic changes such as focal segmental glomerulosclerosis and diffuse mesangial proliferation. Some affected individuals have an inherited steroid-resistant form and progress to end-stage renal failure. Most patients with NPHS4 show diffuse mesangial sclerosis on renal biopsy, which is a pathologic entity characterized by mesangial matrix expansion with no mesangial hypercellularity, hypertrophy of the podocytes,

	vacuolized podocytes, thickened basement membranes, and diminished patency of the capillary lumen. Defects in WT1 are a cause of Meacham syndrome (MEACHS) [MIM:608978]. Meacham syndrome is a rare sporadically occurring multiple malformation syndrome characterized by male pseudohermaphroditism with abnormal internal female genitalia comprising a uterus and double or septate vagina, complex congenital heart defect and diaphragmatic abnormalities. Note=A chromosomal aberration involving WT1 may be a cause of desmoplastic small round cell tumor (DSRCT). Translocation t(11;22)(p13;q12) with EWSR1.
Sequence similarities	Belongs to the EGR C2H2-type zinc-finger protein family. Contains 4 C2H2-type zinc fingers.
Cellular localization	Nucleus. Cytoplasm. Shuttles between nucleus and cytoplasm; Nucleus > nucleoplasm and Nucleus speckle.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Wilms Tumor Protein antibody [6F-H2] - BSA and Azide free (ab212951)

Immunohistochemistry of formalin fixed, paraffin-embedded human fetal kidney tissue labeling Wilms Tumor Protein with ab212951 at 1µg/ml.

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