

Rabbit Usherin Polyclonal Antibody | anti-USH2A antibody

Usherin Antibody FITC-Conjugated

CATALOG # AAA226319	HOST Rabbit	REACTIVITY Human, Monkey, Mouse, Rat	APPLICATIONS Immunoprecipitation, ELISA
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PRODUCT SYNONYMS

Usherin; Polyclonal Antibody; Usherin Antibody FITC-Conjugated; dJ1111A8.1; US1; USH1A; Usher syndrome type Ia protein; Usher syndrome type-1A protein; Usherin antibody; anti-USH2A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Specificity	This antibody will detect both Usherin isoform A and Usherin isoform B.
Purity/Purification	Antigen Affinity Purified
Form/Format	FITC-Conjugated Immunoglobulins
Concentration	0.62 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	1546
Applicable Applications for anti-USH2A antibody	IP (Immunoprecipitation), ELISA
Immunogen	Synthetic peptide taken within amino acid region 255-305 on hman Usherin isoform A protein.
Expression	Present in the basement membrane of many, but not all tissues. Expressed in retina, cochlea, small and large intestine, pancreas, bladder, prostate, esophagus, trachea, thymus, salivary glands, placenta, ovary, fallopian tube, uterus and testis.
Determinant	Mid-Region
Molecular Function	collagen binding, myosin binding
Structure	Interacts with collagen IV and fibronectin via its laminin EGF-like domains. Interaction with collagen may be required for stable integration into the basement membrane. Interacts with USH1C and WHRN. Interacts with NINL. Interacts with PDZD7
Subcellular Location	Cell projection degree stereocilium membrane; Single-pass type I membrane protein
Preparation and Storage	Store at -20 degree C for long term storage

ADDITIONAL INFORMATION

Related Product Information for anti-USH2A antibody

Usher syndrome, an autosomal recessive heterogeneous disorder, is the most common cause of deafness and blindness in adults and affects 3-6% children born with hearing impairment. The affected individuals have sensory-neural deficiencies at birth and subsequently develop progressive retinitis pigmentosa (RP). Three forms of Usher syndrome have been characterized; Usher Type I, II and III which can be distinguished based on severity of hearing loss and vestibular involvement. Type I patients are profoundly deaf while type II (most common form of Usher syndrome) patients are mildly deaf but have normal vestibular responses (1). Ush2A gene has been mapped on a 1 mega base pair interval between marker D1S474 and AFM144XF2. The Usher 2A gene expresses an extra cellular matrix protein that resembles unconventional Myosin and do not appear to have any un-conventional functional correlations. The human Usher Syndrome 2A (Ush2A) protein has 1272 amino acid (Approximate MW 153kDa) with several functional domains (Laminin type EGF like domain; Laminin-Type epidermal growth factor like domain and fibronectin type 3 like domain). The protein has a single transmembrane domain that anchor the protein to the cell membrane, the rest of the protein stays outside the cell.

The Ush2A protein is approximately 153kDa (1272 amino acids) with multiple conserved domains that is mainly expressed in RPEs. The Anti-Usherin-selective antibodies were generated against three regions: N-epitope, Mid-Region and C-epitope. These epitope are unique to Usherin protein. The polyclonal antibody strongly labels a 186kDa protein in RPE cell extracts. Anti-Ush2A-selective antibodies are also available in affinity-purified form for confocal, Western blotting and immunocytochemical analyses. Antibodies can be conjugated with fluorescent probes or secondary enzymes for an extra charge. Western blot positive control in ready-to-use SDS sample buffer and antigenic blocking peptides are available.

NCBI AND UNIPROT INFORMATION

NCBI GI #	219842259
NCBI GeneID	7399
NCBI Accession #	NP_009054.5
NCBI GenBank Nucleotide #	NM_007123.5
UniProt Accession #	O75445; Q5VVM9; Q6S362; Q9NS27
NCBI Official Full Name	usherin isoform A
NCBI Official Synonym Full Names	usherin
NCBI Official Symbol	USH2A
NCBI Official Synonym Symbols	US2; RP39; USH2; dJ1111A8.1
NCBI Protein Information	usherin
UniProt Protein Name	Usherin
UniProt Gene Name	USH2A
UniProt Entry Name	USH2A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/usherin-antibody-immunoprecipitation-elisa/226319>