


### Anti-USH2A antibody ab82714

#### Overview

<b>Product name</b>	Anti-USH2A antibody
<b>Description</b>	Rabbit polyclonal to USH2A
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result, we are pleased to offer this antibody in a purified format as of 24/11/2017. Please note that the dilutions may need to be adjusted accordingly. Purified antibodies have the advantage of being enriched for the fraction of immunoglobulin that specifically reacts with the target antigen and for having a reduction of serum proteins.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Constituents: 1.21% Tris, 0.75% Glycine, 2% Sucrose
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab82714 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
ELISA		Use at an assay dependent concentration.

## Target

### Relevance

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. It is expressed primarily in retina and cochlea and may be important in the development and homeostasis of the inner ear and retina. The human Usher Syndrome 2A (Ush2A) protein has several functional domains (Laminin type EGF like domain; Laminin-Type epidermal growth factor like domain and a 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. Defects in the USH2A gene are the most common cause of deafness and blindness in adults and affect 3-6% children born with hearing impairments. 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 1, II and III which can be distinguish 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 in vestibular responses.

### Cellular localization

Cell Membrane; single-pass type I membrane protein. Isoform 2 is secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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