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# C9orf75 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13839

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q4KMQ1 |
| **Other Accession** | NM_173691, NP_775962 |
| **Reactivity** | Human, Mouse, Rat, Dog, Guinea Pig, Horse, Bovine |
| **Predicted** | Human, Mouse, Rat, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 75556 |

## Additional Information

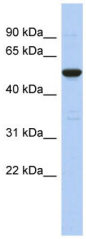
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| **Gene ID** | 286262 |
| **Alias Symbol** | FLJ90254, MGC131933, RP11-350O14.7, DFNB79, C9orf75 |
| **Other Names** | Taperin, TPRN, C9orf75 |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-C9orf75 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | C9orf75 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | TPRN |
| **Synonyms** | C9orf75 |
| **Function** | Essential for hearing (By similarity). Required for maintenance of stereocilia on both inner and outer hair cells (By similarity). Necessary for the integrity of the stereociliary rootlet (By similarity). May act as an actin cytoskeleton regulator involved in the regulation of actin dynamics at the pointed end in hair cells (By similarity). Forms rings at the base of stereocilia and binds actin filaments in the stereocilia which may stabilize the stereocilia (By similarity). Acts as a strong inhibitor of PPP1CA phosphatase activity (PubMed:23213405). Recruited to sites of DNA damage and may play a role in DNA damage repair (PubMed:23213405). |

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| **Cellular Location** | Cell projection, stereocilium {ECO:0000250\|UniProtKB:A2AI08}. Cell projection, microvillus {ECO:0000250\|UniProtKB:A2AI08}. Nucleus, nucleoplasm. Cytoplasm Note=Localized prominently at the basal taper region of hair cell stereocilia (By similarity). Forms organized ring-like structures with diameters ranging from 150 to 200 nm in the stereocilium taper region (By similarity). Detected in microvilli of inner hair cell supporting cells (By similarity). Predominantly nuclear in non-stereocilium cells but can shuttle between the nucleus and the cytoplasm (PubMed:23213405). {ECO:0000250\|UniProtKB:A2AI08, ECO:0000269\|PubMed:23213405} |
| **Tissue Location** | Expression is detected in fetal cochlea. |

## Images




WB Suggested Anti-C9orf75 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:1562500
Positive Control: Human Thymus

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.