

HECW1 Rabbit pAb

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Catalog # AP54597

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q76N89
Reactivity	Rat
Predicted	Dog, Human, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	179554
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HECW1
Epitope Specificity	251-350/1606
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	NEDL1 is a 1,606 amino acid cytoplasmic protein predominantly expressed in neurons of adult and fetal brain. NEDL1 functions as an E3 ubiquitin-protein ligase that, characteristic of E3 ligase proteins, accepts ubiquitin (in the form of a thioester) from an E2 ubiquitin-conjugating enzyme and transfers that ubiquitin residue to substrates targeted for degradation. NEDL1 mediates ubiquitination and subsequent degradation of Dvl-1 and targets mutant SOD-1. NEDL1 forms cytotoxic aggregates with Dvl, TRAP-2 and mutant SOD1 that lead to motor neuron death in FALS (familial amyotrophic lateral sclerosis). individuals affect by FALS (also known as Lou Gehrig's disease) experience muscle weakness and atrophy throughout the body. FALS is caused by the degeneration of upper and lower motor neurons resulting in loss of signal to muscles.

Additional Information

Gene ID	23072
Other Names	E3 ubiquitin-protein ligase HECW1, 2.3.2.26, HECT, C2 and WW domain-containing protein 1, HECT-type E3 ubiquitin transferase HECW1, NEDD4-like E3 ubiquitin-protein ligase 1, hNEDL1, HECW1, KIAA0322, NEDL1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

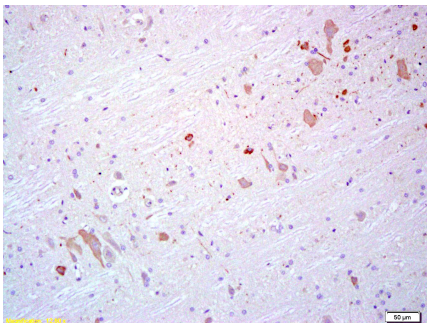
Protein Information

Name	HECW1
Synonyms	KIAA0322, NEDL1
Function	E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent degradation of DVL1. Also targets the mutant SOD1 protein involved in familial amyotrophic lateral sclerosis (FALS). Forms cytotoxic aggregates with DVL1, SSR3 and mutant SOD1 that lead to motor neuron death in FALS.
Cellular Location	Cytoplasm.
Tissue Location	Predominantly expressed in neurons of adult and fetal brain. Weakly expressed in the kidney

Background

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Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-HECW1 Polyclonal Antibody, Unconjugated(AP54597) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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