

Rabbit anti-Human, Mouse Utrophin/UTRN Polyclonal Antibody | anti-UTRN antibody

Anti-Utrophin/UTRN Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125640	Rabbit	Human, Mouse	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

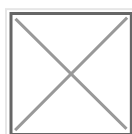
PRODUCT SYNONYMS

Utrophin/UTRN; Polyclonal Antibody; Anti-Utrophin/UTRN Antibody; UTRN; DMDL; DRP1; Utrophin; Dystrophin-related protein 1; DRP-1; utrophin; anti-UTRN antibody

PRODUCT SPECIFICATIONS

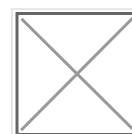
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Utrophin/UTRN detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-UTRN antibody	ELISA (Direct ELISA), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Utrophin/UTRN recombinant protein (Position: L1211-K2294).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IF (Immunofluorescence)

Figure 2. IF analysis of Utrophin/UTRN using anti- Utrophin/UTRN antibody (AAA125640).Utrophin/UTRN was detected in immunocytochemical section of CACO-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- Utrophin/UTRN Antibody (AAA125640) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Utrophin/UTRN using anti-Utrophin/UTRN antibody (AAA125640).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human Sw620 whole cell lysatesLane 3: human Caco-2 whole cell lysatesLane 4: human THP-1 whole cell lysatesLane 5: mouse lung tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Utrophin/UTRN antigen affinity purified polyclonal antibody (Catalog # AAA125640) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Utrophin/UTRN at approximately 394KD. The expected band size for Utrophin/UTRN is at 394KD.

ADDITIONAL INFORMATION

Related Product Information for anti-UTRN antibody	Utrophin is a protein that in humans is encoded by the UTRN gene. This gene shares both structural and functional similarities with the dystrophin gene. It contains an actin-binding N-terminus, a triple coiled-coil repeat central region, and a C-terminus that consists of protein-protein interaction motifs which interact with dystroglycan protein components. The protein encoded by this gene is located at the neuromuscular synapse and myotendinous junctions, where it participates in post-synaptic membrane maintenance and acetylcholine receptor clustering. Mouse studies suggest that this gene may serve as a functional substitute for the dystrophin gene and therefore, may serve as a potential therapeutic alternative to muscular dystrophy which is caused by mutations in the dystrophin gene. Alternative splicing of the utrophin gene has been described; however, the full-length nature of these variants has not yet been determined.
References	<p>1. Blake, D. J., Love, D. R., Tinsley, J., Morris, G. E., Turley, H., Gatter, K., Dickson, G., Edwards, Y. H., Davies, K. E. Characterization of a 4.8 kb transcript from the Duchenne muscular dystrophy locus expressed in schwannoma cells. Hum. Molec. Genet. 1: 103-109, 1992.</p> <p>2. Blake, D. J., Schofield, J. N., Zuellig, R. A., Gorecki, D. C., Phelps, S. R., Barnard, E. A., Edwards, Y. H., Davies, K. E. G-utrophin, the autosomal homologue of dystrophin Dp116, is expressed in sensory ganglia and brain. Proc. Nat. Acad. Sci. 92: 3697-3701, 1995.</p> <p>3. Buckle, V. J., Guenet, J. L., Simon-Chazottes, D., Love, D. R., Davies, K. E. Localisation of a dystrophin-related autosomal gene to 6q24 in man, and to mouse chromosome 10 in the region of the dystrophia muscularis (dy) locus. Hum. Genet. 85: 324-326, 1990.</p>

NCBI AND UNIPROT INFORMATION

NCBI GI #	110611228
NCBI GeneID	7402
NCBI Accession #	NP_009055.2
NCBI GenBank Nucleotide #	NM_007124.2
UniProt Accession #	P46939; Q5SYY1; Q5SZ57; Q9UJ40
Molecular Weight	394,969 Da
NCBI Official Full Name	utrophin
NCBI Official Synonym Full Names	utrophin
NCBI Official Symbol	UTRN
NCBI Official Synonym Symbols	DRP; DMDL; DRP1
NCBI Protein Information	utrophin
UniProt Protein Name	Utrophin
UniProt Gene Name	UTRN
UniProt Synonym Gene Names	DMDL; DRP1; DRP-1

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.