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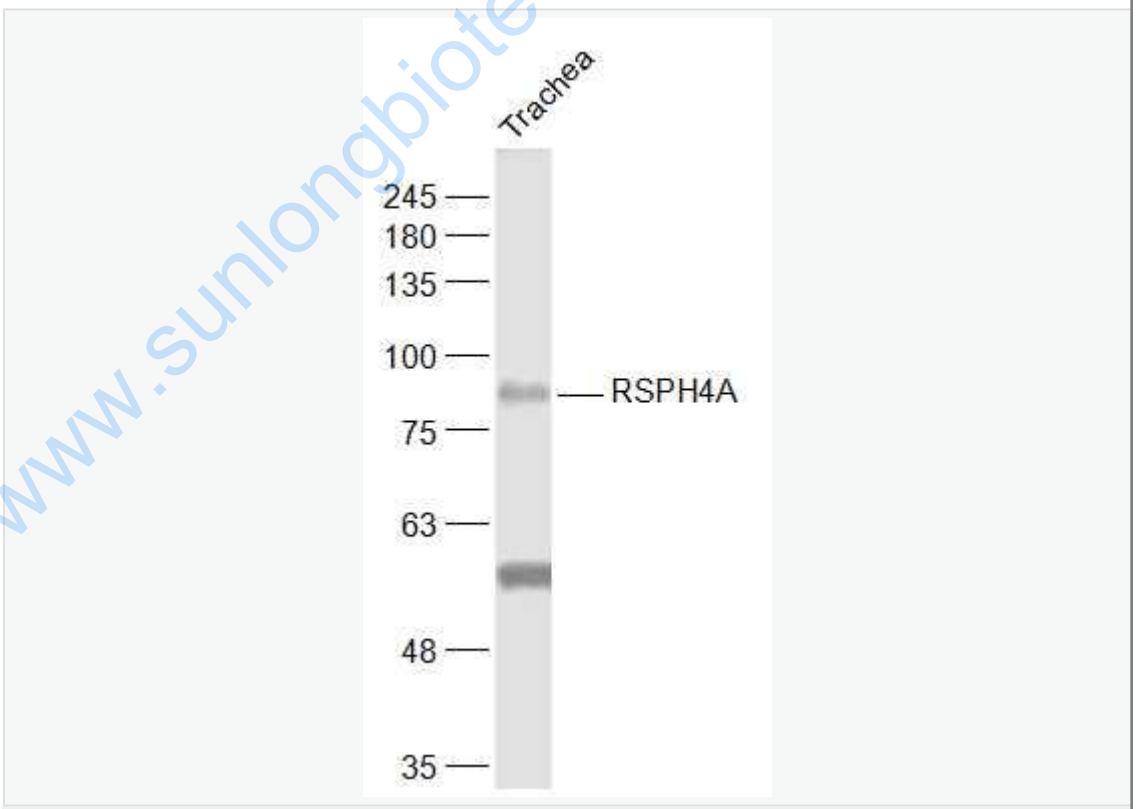
Rabbit Anti-RSPH4A antibody

SL11472R

Product Name:	RSPH4A
Chinese Name:	Kartagener综合征相关蛋白RSHL3抗体
Alias:	CILD11; dJ412I7.1; Radial spoke head protein 4 homolog A; Radial spoke head-like protein 3; RSH4A_HUMAN; RSHL3; Rsph4a; RSPH6B; A230081C05.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	81kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RSPH4A/RSHL3:435-482/716
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	RSHL3 is predicted to be a component of the radial spoke head based on homology with proteins in the biflagellate alga Chlamydomonas reinhardtii and other ciliates. RSHL3 (radial spoke head-like protein 3), also known as radial spoke head protein 4 homolog A, is a 716 amino acid protein that belongs to the flagellar radial spoke RSP4/6 family. Mutations in the RSHL3 gene cause primary ciliary dyskinesia 1, a disease arising from dysmotility of motile cilia and sperm. Existing as three alternatively spliced isoforms,

	the RSHL3 gene contains 6 exons, is conserved in chimpanzee, dog, cow, mouse, rat, chicken, zebrafish, fruit fly and P.falciparum, and maps to human chromosome 6q22.1. **Function:** Probable component of the axonemal radial spoke head. Radial spokes are regularly spaced along cilia, sperm and flagella axonemes. They consist of a thin stalk which is attached to a subfiber of the outer doublet microtubule, and a bulbous head which is attached to the stalk and appears to interact with the projections from the central pair of microtubules. **Subcellular Location:** Cytoplasm; cytoskeleton; cilium axoneme. Radial spoke. **Tissue Specificity:** Defects in RSPH4A are the cause of primary ciliary dyskinesia type 11 (CILD11) [MIM:612649]. CILD is an autosomal recessive disorder characterized by axonemal abnormalities of motile cilia. Respiratory infections leading to chronic inflammation and bronchiectasis are recurrent, due to defects in the respiratory cilia; reduced fertility is often observed in male patients due to abnormalities of sperm tails. Half of the patients exhibit situs inversus, due to dysfunction of monocilia at the embryonic node and randomization of left-right body asymmetry. Primary ciliary dyskinesia associated with situs inversus is referred to as Kartagener syndrome. **DISEASE:** Defects in RSPH4A are the cause of primary ciliary dyskinesia type 11 (CILD11) [MIM:612649]. CILD is an autosomal recessive disorder characterized by axonemal abnormalities of motile cilia. Respiratory infections leading to chronic inflammation and bronchiectasis are recurrent, due to defects in the respiratory cilia; reduced fertility is often observed in male patients due to abnormalities of sperm tails. Half of the patients exhibit situs inversus, due to dysfunction of monocilia at the embryonic node and randomization of left-right body asymmetry. Primary ciliary dyskinesia associated with situs inversus is referred to as Kartagener syndrome. **Similarity:** Belongs to the flagellar radial spoke RSP4/6 family. **SWISS:** Q5TD94 **Gene ID:** 345895 **Database links:** Entrez Gene: 345895 Human

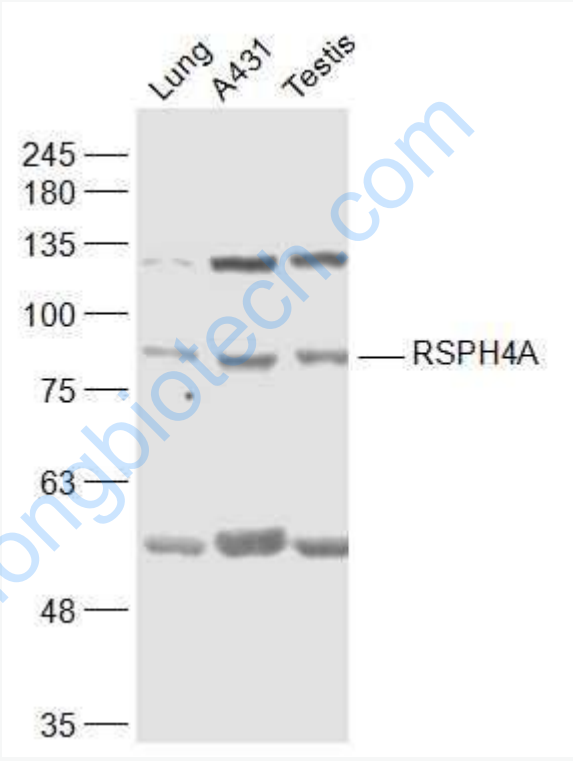
	Omim: 612647 Human SwissProt: Q5TD94 Human Unigene: 160380 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Kartagener综合征:由下列三联症组成，支气管扩张、鼻窦炎或鼻息肉及内脏反位(主要是右位心)。若仅具备内脏反位及支气管扩张两项，则为不全性Kartagener综合征。常合并其他先天性畸形。其病因是由于全身纤毛先天性缺乏轴丝臂，引起纤毛活动力丧失、黏液纤毛运输功能障碍，分泌物和细菌潴留而发生持续性感染长期存在所致。以学龄儿童及青少年多发，有家族史。主要症状为随年龄加重的咳嗽、咳痰和咯血，晨起明显，易患感冒及肺炎，常见体征为发绀和杵状指。
Picture:	 Sample: Trachea (Mouse) Lysate at 40 ug

Primary: Anti-RSPH4A? (SL11472R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 81 kD

Observed band size: 81 kD



Sample:

Lung (Mouse) Lysate at 40 ug

A431(Human) Cell Lysate at 30 ug

Testis (Mouse) Lysate at 40 ug

Primary: Anti-RSPH4A? (SL11472R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 81 kD

	Observed band size: 81 kD