



# Dynein IC2 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-03128
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Chicken
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	DNAI2
<b>Protein Name</b>	Dynein intermediate chain 2 axonemal
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human DNAI2. AA range:71-120
<b>Specificity</b>	Dynein IC2 Polyclonal Antibody detects endogenous levels of Dynein IC2 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	DNAI2; Dynein intermediate chain 2; axonemal; Axonemal dynein intermediate chain 2
<b>Observed Band</b>	70kD
<b>Cell Pathway</b>	Cytoplasm, cytoskeleton, cilium axoneme . Dynein axonemal particle . Located in the proximal region of respiratory cilia. .
<b>Tissue Specificity</b>	Highly expressed in trachea and testis. Expressed in respiratory ciliated cells (at protein level) (PubMed:33139725).
<b>Function</b>	disease:Defects in DNAI2 are the cause of primary ciliary dyskinesia type 9 (CILD9) [MIM:612444]. 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.,function:Part of the dynein complex of respiratory cilia.,sequence caution:Intron retention.,similarity:Belongs to the dynein intermediate chain family.,similarity:Contains 5 WD repeats.,subunit:Consists of at least two heavy chains and a nu



**Background**

The protein encoded by this gene belongs to the dynein intermediate chain family, and is part of the dynein complex of respiratory cilia and sperm flagella. Mutations in this gene are associated with primary ciliary dyskinesia type 9. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Mar 2010],

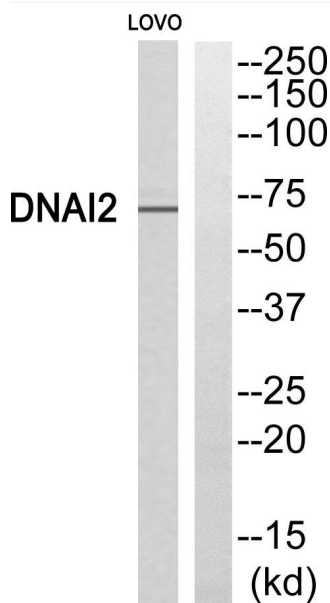
**matters needing attention**

Avoid repeated freezing and thawing!

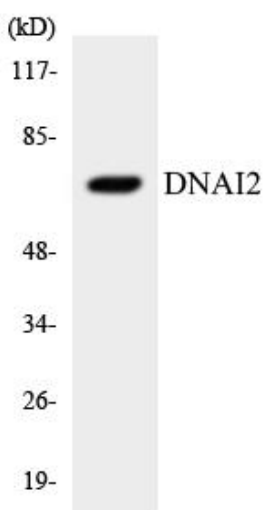
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western blot analysis of DNAI2 Antibody. The lane on the right is blocked with the DNAI2 peptide.



Western blot analysis of the lysates from RAW264.7 cells using DNAI2 antibody.