

## Product datasheet for **AM50072PU-S**

### DNAL1 Mouse Monoclonal Antibody [Clone ID: AT29E4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT29E4
Applications:	ELISA, WB
Recommended Dilution:	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant human DNAL1 (1-190aa) purified from E. coli
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	dynein axonemal light chain 1
Database Link:	<a href="#">Entrez Gene 83544 Human Q4LDG9</a>



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**Background:**

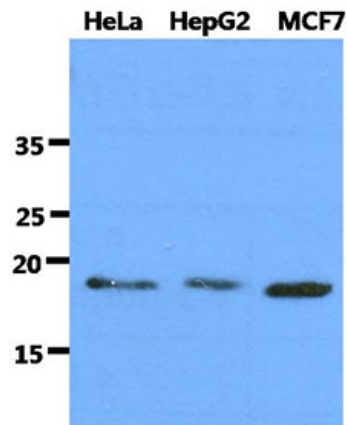
DNAL1, also known as dynein light chain 1 axonemal, is component of the outer dynein arms complex. This complex acts as the molecular motor that provides the force to move cilia in an ATP-dependent manner. DNAL1 is expressed in tissues with motile cilia or flagella and may be involved in the movement of sperm flagella. Homozygous mutations in the DNAL1 gene are associated with primary ciliary dyskinesia 16 (CILD16) which is a disorder characterized by abnormalities of motile cilia.

**Synonyms:**

Dynein light chain 1 axonemal, C14orf168

**Protein Pathways:**

Huntington's disease

**Product images:**

The cell lysates of HeLa, HepG2 and MCF7 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human DNAL1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.