

Product datasheet

Anti-TDRD1 antibody ab107665

2 图像

概述

产品名称	Anti-TDRD1抗体
描述	兔多克隆抗体to TDRD1
宿主	Rabbit
经测试应用	适用于: WB, ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide conjugated to KLH, corresponding to a region within C terminal amino acids 973-1002 of Human TDRD1 (NP_942090.1).
阳性对照	K562 cell line lysates. IF/ICC: MCF7 cell line.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C long term.
存储溶液	Preservative: 0.09% Sodium Azide Constituents: PBS
纯度	Immunogen affinity purified
纯化说明	ab107665 is purified through a protein A column, followed by peptide affinity purification.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab107665** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/100 - 1/500. Predicted molecular weight: 132 kDa.
ICC/IF		Use a concentration of 10 µg/ml.

## 靶标

### 功能

Plays a central role during spermatogenesis by participating in the repression transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Required for the localization of Piwi proteins to the meiotic nuage. Involved in the piRNA metabolic process by ensuring the entry of correct transcripts into the normal piRNA pool and limiting the entry of cellular transcripts into the piRNA pathway. May act by allowing the recruitment of piRNA biogenesis or loading factors that ensure the correct entry of transcripts and piRNAs into Piwi proteins.

### 组织特异性

Testis and ovary specific. Also expressed in several cancers.

### 序列相似性

Belongs to the TDRD1 family.  
Contains 1 MYND-type zinc finger.  
Contains 4 Tudor domains.

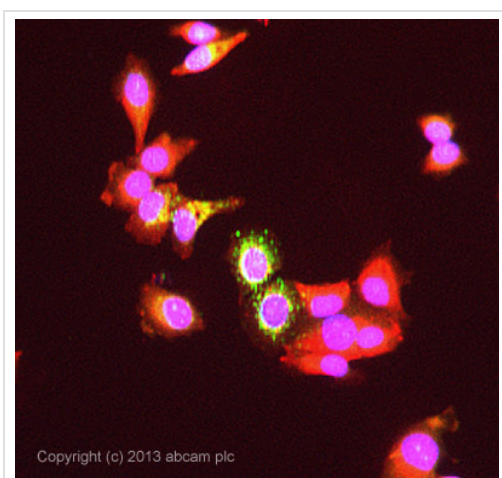
### 结构域

Tudor domains 2 and 3 have higher affinity for arginine-methylated peptides, tudor domain 1 is a poor binder due to an impaired aromatic cage.

### 细胞定位

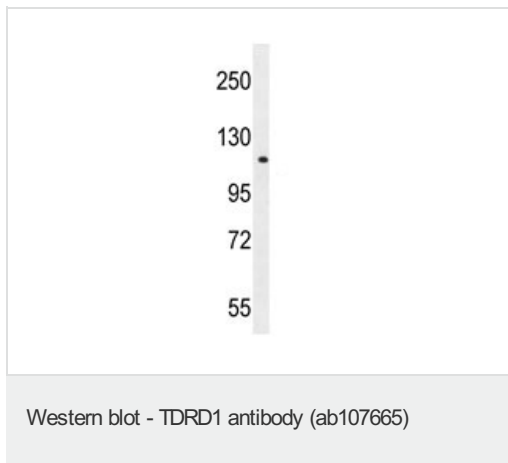
Cytoplasm. Component of the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon activity during meiosis. Also present in chromatoid body (By similarity).

## 图片



Immunocytochemistry/ Immunofluorescence - Anti-TDRD1 antibody (ab107665)

ICC/IF image of ab107665 stained MCF7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab107665, 10µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96899](#), DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Anti-TDRD1 antibody (ab107665) at 1/100 dilution + K562 cell line lysates at 35 µg

**Predicted band size:** 132 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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