

## Product datasheet

# Anti-INSL3 antibody [EPR20739] - BSA and Azide free ab228460

Recombinant RabMAb

[5 Images](#)

### Overview

<b>Product name</b>	Anti-INSL3 antibody [EPR20739] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR20739] to INSL3 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	This product recognises a different epitope compared to <a href="#">ab224643</a> .
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Human testis tissue.
<b>General notes</b>	<p>ab228460 is the carrier-free version of <a href="#">ab227974</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR20739
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab228460 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 15 kDa (predicted molecular weight: 14 kDa).
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
<b>IP</b>		Use at an assay dependent concentration.

## Target

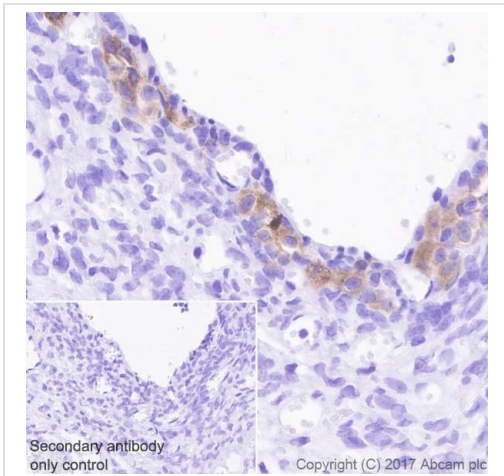
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<b>Function</b>	Seems to play a role in testicular function. May be a trophic hormone with a role in testicular descent in fetal life. Is a ligand for LGR8 receptor.
<b>Tissue specificity</b>	Expressed in prenatal and postnatal Leydig cells. Found as well in the corpus luteum, trophoblast, fetal membranes and breast.
<b>Involvement in disease</b>	Defects in INSL3 seems to be a cause of cryptorchidism (CRYPTO) [MIM:219050]; also known as impaired testicular descent. It is one of the most frequent congenital abnormalities in humans, involving 2-5% of male births. Cryptorchidism is associated with increased risk of infertility and testicular cancer. The frequency of INSL3 gene mutations as a cause of cryptorchidism is low.
<b>Sequence similarities</b>	Belongs to the insulin family.
<b>Cellular localization</b>	Secreted.

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## Images

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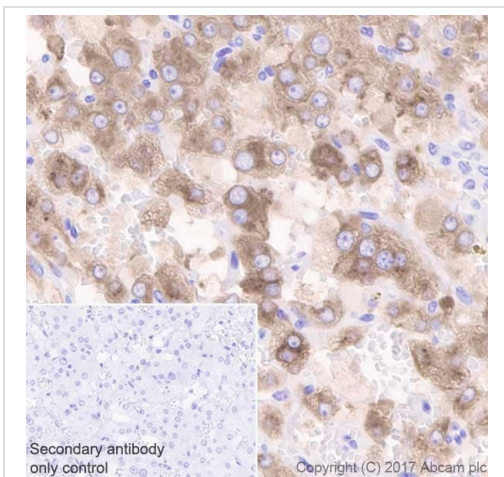
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-INSL3 antibody [EPR20739] - BSA and Azide free (ab228460)

Immunohistochemical analysis of paraffin-embedded human ovary tissue labeling INSL3 with **ab227974** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in thecal cells of human ovary is observed (PMID: 21138583). Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227974**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



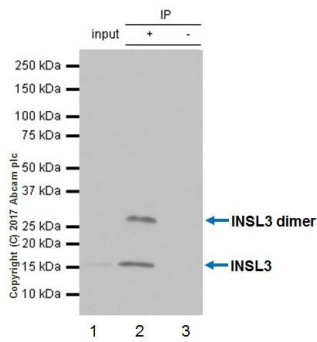
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-INSL3 antibody [EPR20739] - BSA and Azide free (ab228460)

Immunohistochemical analysis of paraffin-embedded human Leydig tumor tissue labeling INSL3 with **ab227974** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in human Leydig tumor cells is observed (PMID: 25609776). Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227974**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-INSL3 antibody [EPR20739] - BSA and Azide free (ab228460)

INSL3 was immunoprecipitated from 0.35 mg of human testis lysate with **ab227974** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab227974** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

**Lane 1:** Human testis lysate 10 µg (Input).

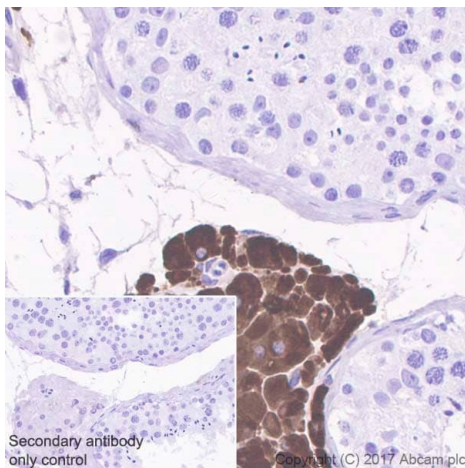
**Lane 2:** **ab227974** IP in human testis lysate.

**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of **ab227974** in human testis lysate.

**Exposure time:** 10 seconds.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227974**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-INSL3 antibody [EPR20739] - BSA and Azide free (ab228460)

Immunohistochemical analysis of paraffin-embedded human testis tissue labeling INSL3 with **ab227974** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in Leydig cells of human testis (PMID: 19329805). Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227974**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-INS3 antibody [EPR20739] - BSA and Azide free (ab228460)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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