abcam

ab271958

Anti-LYPD3 antibody [SP250] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	SP250
Purification technique	Affinity purification Protein A/G
Concentration	0.979 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS by Protein A/G.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-

Notes	Incubate with primary antibody for 30 minutes at 4°;C.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Boil tissue section in citrate buffer pH 6.0 for 10 minutes followed by cooling at room temperature for 20 minutes.Incubate with primary antibody for 10 minutes at room temperature

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information LYPD3

Function	Supports cell migration. May be involved in urothelial cell-matrix interactions. May be involved in tumor progression.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab271958 is the carrier-free version of ab192845.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	LYPD3 also known as C4.4A is a glycosylphosphatidylinositol (GPI)-anchored protein with a molecular weight of approximately 40 kDa. It belongs to the Ly6/PLAUR domain family. This protein is mainly expressed in stratified epithelia and also found in some other tissues. LYPD3 shows higher expression levels in certain cancer cell types indicating its role in tumorigenesis.
Biological function summary	LYPD3 functions in cellular adhesion and migration processes. It interacts with extracellular matrix components facilitating the movement and positioning of cells. It acts as a part of a protein complex that is important for cell communication and tissue organization. Its high expression in some cancer types suggests its involvement in processes that drive cancer progression including metastasis.

Pathways	LYPD3 participates in key signaling cascades including integrin-mediated pathways. These pathways are important for mediating cell-matrix interactions and influence cell movement and survival. LYPD3 has known interactions with integrin proteins suggesting a collaborative role that modulates cell adhesion dynamics. These interactions make it an important player in cell migration and invasion processes that are pivotal for normal physiological events and pathological conditions.
Associated diseases and disorders	LYPD3 shows significant involvement in cancers such as squamous cell carcinoma and prostate cancer. The protein aids the metastatic spread of these cancers by promoting cell migration and invasion. It has been associated with other proteins like laminin which supports cancer cell detachment and dissemination. Understanding LYPD3's role in cancer biology helps in identifying therapeutic targets for impeding cancer progression.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

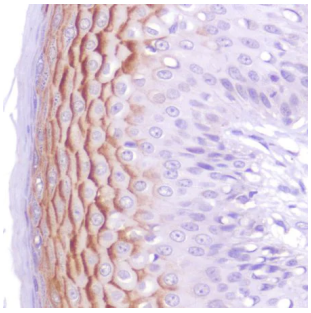
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

2 product images

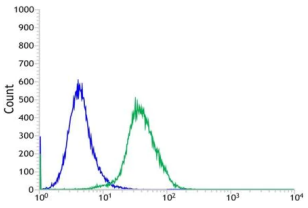


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYPD3 antibody [SP250] - BSA and Azide free (ab271958)

LYPD3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LYPD3 antibody

Formalin-fixed, paraffin-embedded human skin tissue stained for LYPD3 using ab192845 at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab192845).



Flow Cytometry - Anti-LYPD3 antibody [SP250] - BSA and Azide free (ab271958)

LYPD3 Flow Cytometry staining using rabbit Anti-LYPD3 antibody

Flow cytometric analysis of BxPC-3 (human pancreas adenocarcinoma cell line) cells labeling LYPD3 with ab192845 at 1/100 dilution (green) compared with a negative control rabbit IgG (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab192845).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.