

# Anti-Exportin-5 antibody [EPR8452] - BSA and Azide free ab248256

リコンビナント RabMAb

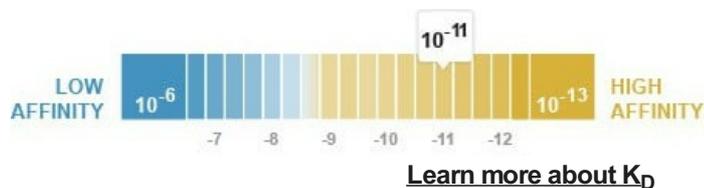
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### 製品の概要

製品名	Anti-Exportin-5 antibody [EPR8452] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR8452] to Exportin-5 - BSA and Azide free
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), IHC-P, WB <b>適用なし:</b> IP
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
特記事項	<p>ab248256 is the carrier-free version of <a href="#">ab129006</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 <b>conjugation kits</b> 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>

## 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
解離定数 (K <sub>D</sub> 値)	K <sub>D</sub> = 3.64 x 10 <sup>-11</sup> M



バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR8452
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab248256の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 136 kDa (predicted molecular weight: 136 kDa).

追加情報 Is unsuitable for IP.

## ターゲット情報

**機能** Mediates the nuclear export of proteins bearing a double-stranded RNA binding domain (dsRBD) and double-stranded RNAs (cargos). XPO5 in the nucleus binds cooperatively to the RNA and to the GTPase Ran in its active GTP-bound form. Proteins containing dsRBDs can associate with this trimeric complex through the RNA. Docking of this complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause disassembly of the complex and release of the cargo from the export receptor. XPO5 then returns to the nuclear compartment by diffusion through the nuclear pore complex, to mediate another round of transport. The directionality of nuclear export is thought to

be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Overexpression may in some circumstances enhance RNA-mediated gene silencing (RNAi).

Mediates the nuclear export of micro-RNA precursors, which form short hairpins. Also mediates the nuclear export of synthetic short hairpin RNAs used for RNA interference, and adenovirus VA1 dsRNA. In some circumstances can also mediate the nuclear export of deacylated and aminoacylated tRNAs. Specifically recognizes dsRNAs that lack a 5'-overhang in a sequence-independent manner, have only a short 3'-overhang, and that have a double-stranded length of at least 15 base-pairs. Binding is dependent on Ran-GTP.

**組織特異性**

Expressed in heart, brain, placenta, lung, skeletal muscle, kidney and pancreas.

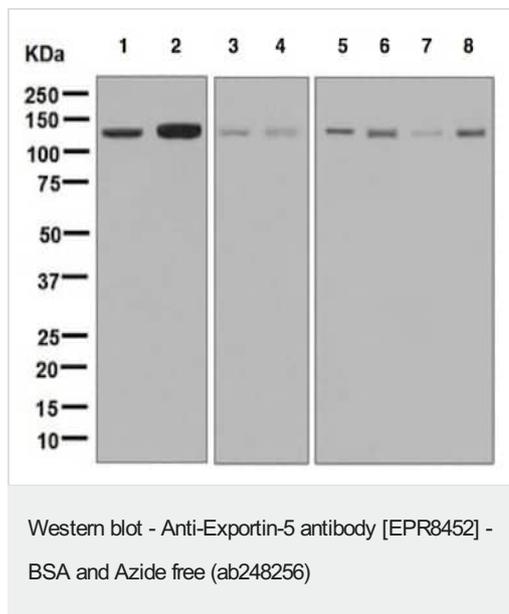
**配列類似性**

Belongs to the exportin family.

**細胞内局在**

Nucleus. Cytoplasm. Shuttles between the nucleus and the cytoplasm.

**画像**



**All lanes :** Anti-Exportin-5 antibody [EPR8452] ([ab129006](#)) at 1/1000 dilution

**Lane 1 :** HeLa cell lysate

**Lane 2 :** K562 cell lysate

**Lane 3 :** Human fetal heart tissue lysate

**Lane 4 :** Human fetal brain tissue lysate

**Lane 5 :** C6 cell lysate

**Lane 6 :** RAW 264.7 cell lysate

**Lane 7 :** PC-12 cell lysate

**Lane 8 :** NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

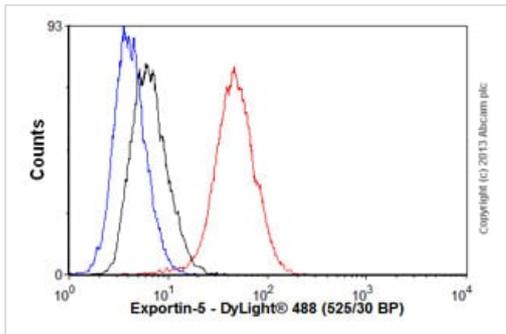
**Secondary**

**All lanes :** Goat anti-rabbit HRP conjugated at 1/2000 dilution

**Predicted band size:** 136 kDa

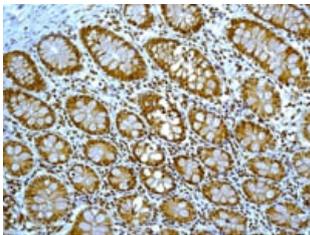
**Observed band size:** 136 kDa

This data was developed using [ab129006](#), the same antibody clone in a different buffer formulation.



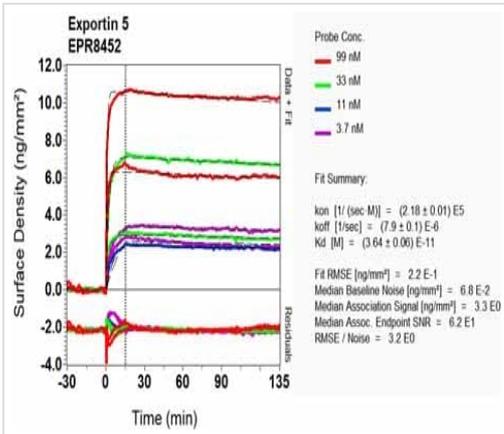
Flow Cytometry (Intracellular) - Anti-Exportin-5 antibody [EPR8452] - BSA and Azide free (ab248256)

This data was developed using **ab129006**, the same antibody clone in a different buffer formulation. Overlay histogram showing HEK293 cells stained with **ab129006** (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (**ab129006**, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1 µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HEK293 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Exportin-5 antibody [EPR8452] - BSA and Azide free (ab248256)

This data was developed using **ab129006**, the same antibody clone in a different buffer formulation. **ab129006**, at 1/250 dilution, staining Exportin-5 in paraffin-embedded Human colon tissue by Immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



OI-RD Scanning - Anti-Exportin-5 antibody  
 [EPR8452] - BSA and Azide free (ab248256)

This data was developed using [ab129006](#), the same antibody clone in a different buffer formulation. Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

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-Exportin-5 antibody [EPR8452] - BSA and Azide free (ab248256)

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

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