abcam

Product datasheet

Anti-AP-2 complex subunit alpha-1 antibody ab3707

画像数 1

製品の概要

製品名	Anti-AP-2 complex subunit alpha-1 antibody
製品の詳細	Goat polyclonal to AP-2 complex subunit alpha-1
由来種	Goat
特異性	The immunogen sequence is found in both AP2A2 and AP2A1. This antibody recognises a band of just under 100kD in multiple human cell lines (see picture), the band can be blocked with the immunising peptide.
アプリケーション	**適用あり:** WB
種交差性	**交差種:** Human **交差が予測される動物種:** Mouse
免疫原	Synthetic peptide corresponding to Human AP-2 complex subunit alpha-1 aa 3-14. Sequence: AVSKGDGMRGLAC (Peptide available as **ab11698**) Run BLAST with Run BLAST with
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
精製度	Immunogen affinity purified

ポリ/モノ	ポリクローナル
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ab3707の使用に適用されます

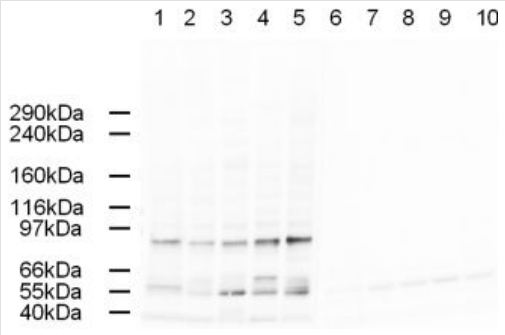
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/500. Detects a band of approximately 100 kDa (predicted molecular weight: 104 , 108 kDa).

ターゲット情報

機能	Component of the adaptor protein complex 2 (AP-2). Adaptor protein complexes function in protein transport via transport vesicles in different membrane traffic pathways. Adaptor protein complexes are vesicle coat components and appear to be involved in cargo selection and vesicle formation. AP-2 is involved in clathrin-dependent endocytosis in which cargo proteins are incorporated into vesicles surrrounded by clathrin (clathrin-coated vesicles, CCVs) which are destined for fusion with the early endosome. The clathrin lattice serves as a mechanical scaffold but is itself unable to bind directly to membrane components. Clathrin-associated adaptor protein (AP) complexes which can bind directly to both the clathrin lattice and to the lipid and protein components of membranes are considered to be the major clathrin adaptors contributing the CCV formation. AP-2 also serves as a cargo receptor to selectively sort the membrane proteins involved in receptor-mediated endocytosis. AP-2 seems to play a role in the recycling of synaptic vesicle membranes from the presynaptic surface. AP-2 recognizes Y-X-X-[FILMV] (Y-X-X-Phi) and [ED]-X-X-X-L-[LI] endocytosis signal motifs within the cytosolic tails of transmembrane cargo molecules. AP-2 may also play a role in maintaining normal post-endocytic trafficking through the ARF6-regulated, non-clathrin pathway. The AP-2 alpha subunit binds polyphosphoinositide-containing lipids, positioning AP-2 on the membrane. The AP-2 alpha subunit acts via its C-terminal appendage domain as a scaffolding platform for endocytic accessory proteins. The AP-2 alpha and AP-2 sigma subunits are thought to contribute to the recognition of the [ED]-X-X-X-L-[LI] motif.
組織特異性	Isoform A expressed in forebrain, skeletal muscle, spinal cord, cerebellum, salivary gland, heart and colon. Isoform B is widely expressed in tissues and also in breast cancer and in prostate carcinoma cells.
配列類似性	Belongs to the adaptor complexes large subunit family.
細胞内局在	Cell membrane. Membrane > coated pit. AP-2 appears to be excluded from internalizing CCVs and to disengage from sites of endocytosis seconds before internalization of the nascent CCV.

画像



Western blot - Anti-AP-2 complex subunit alpha-1 antibody (ab3707)

Western blot using ab3707 at 1/500.

Lane 1: HeLa Nuclear Extract
Lane 2: HeLa Whole Cell Lysate
Lane 3: 293 Whole Cell Lysate
Lane 4: A431 Whole Cell Lysate
Lane 5: Jurkat Whole Cell Lysate
Lane 6: HeLa Nuclear Extract + blocking/immunising peptide
Lane 7: HeLa Whole Cell Lysate + blocking/immunising peptide
Lane 8: 293 Whole Cell Lysate + blocking/immunising peptide
Lane 9: A431 Whole Cell Lysate + blocking/immunising peptide
Lane 10: Jurkat Whole Cell Lysate + blocking/immunising peptide

AP2 alpha proteins (AP2A2 and AP2A1) have predicted molecular weights of 104 and 107kD. The band at just below 97kD (that is blocked by the immunising peptide) represents AP2 alpha, the lower bands are not blocked completely by the immunising peptide and are believed to be non-specific.

Secondary ab: Rabbit polyclonal to Goat IgG HRP
ab6741 (1/5000)
Exposure time: 1 minute.<

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.co.jp/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors