

Datasheet for ABIN968728 anti-TAF4 antibody (AA 454-565)



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Overview

Quantity:	50 µg
Target:	TAF4
Binding Specificity:	AA 454-565
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TAF4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human TAF[II]135 aa. 454-565
Clone:	22-TAF[II]135
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	TAF4
Alternative Name:	TAF II135 (TAF4 Products)
Background:	<p>Tightly associated factors (TAFs) play an essential role in transcriptional activation through their interaction with a variety of activators. TAF[II]135 (a.k.a. TAF[II]130) is a human homologue of Drosophila TAF[II]110, the first TAF shown to have coactivator activity. TAF[II]135 contains multiple glutamine-rich regions, as well as a coactivator domain (CAD). The glutamine-rich regions of TAF[II]135 facilitate interaction with Sp1 and CREB, which leads to enhancement of both Sp1- and CREB-mediated transcription. In addition, TAF[II]135 can potentiate transcriptional stimulation by AF-2 of the retinoic acid, thyroid hormone, and vitamin D3 receptors. However, TAF[II]135 does not interact with the AF-2s of the estrogen and retinoid X receptors. Interestingly, TAF[II]135 enhancement of CREB transcriptional activity may be disrupted by expanded polyglutamine (CAG) repeats found in at least eight different neurodegenerative disorders. Thus, TAF[II]135 may have important coactivator activities in many different transcription-regulating cell signaling pathways, and interference of TAF[II]135 activity by CAG repeats may be a common mechanism of specific types of neuropathologies.</p>
Molecular Weight:	135 kDa

Application Details

Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

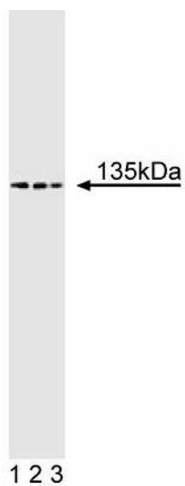
Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

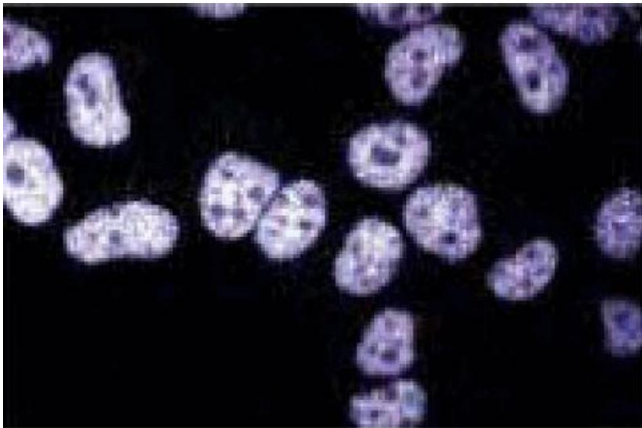
Product cited in:	<p>Freiman, Albright, Chu, Zheng, Liang, Sha, Tjian: "Redundant role of tissue-selective TAF(II)105 in B lymphocytes." in: Molecular and cellular biology, Vol. 22, Issue 18, pp. 6564-72, (2002) (PubMed).</p> <p>Shimohata, Nakajima, Yamada, Uchida, Onodera, Naruse, Kimura, Koide, Nozaki, Sano, Ishiguro, Sakoe, Ooshima, Sato, Ikeuchi, Oyake, Sato, Aoyagi, Hozumi, Nagatsu, Takiyama, Nishizawa, Goto, Kanazawa et al.: "Expanded polyglutamine stretches interact with TAFII130, interfering with CREB-dependent transcription. ..." in: Nature genetics, Vol. 26, Issue 1, pp. 29-36, (2000) (PubMed).</p> <p>Saluja, Vassallo, Tanese: "Distinct subdomains of human TAFII130 are required for interactions with glutamine-rich transcriptional activators." in: Molecular and cellular biology, Vol. 18, Issue 10, pp. 5734-43, (1998) (PubMed).</p> <p>Mengus, May, Carré, Chambon, Davidson: "Human TAF(II)135 potentiates transcriptional activation by the AF-2s of the retinoic acid, vitamin D3, and thyroid hormone receptors in mammalian cells." in: Genes & development, Vol. 11, Issue 11, pp. 1381-95, (1997) (PubMed).</p>
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Images



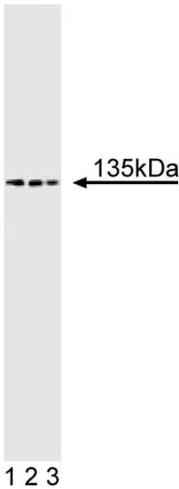
Western Blotting

Image 1. Western blot analysis of TAF[II] 135 on Jurkat lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-TAF[II] 135.



Immunofluorescence

Image 2. Immunofluorescent staining of HeLa cells.



Western Blotting

Image 3.