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TIEG2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6625A

Product Information

Application	IHC-P, FC, IF, WB, E
Primary Accession	O14901
Other Accession	Q8K1S5
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19899
Calculated MW	55139
Antigen Region	7-36

Additional Information

Gene ID	8462
Other Names	Krueppel-like factor 11, Transforming growth factor-beta-inducible early growth response protein 2, TGFB-inducible early growth response protein 2, TIEG-2, KLF11, FKLF, TIEG2
Target/Specificity	This TIEG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-36 amino acids from the N-terminal region of human TIEG2.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TIEG2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KLF11

Synonyms	FKLF, TIEG2
Function	Transcription factor (PubMed: 10207080, PubMed:9748269). Activates the epsilon- and gamma-globin gene promoters and, to a much lower degree, the beta-globin gene and represses promoters containing SP1-like binding inhibiting cell growth (PubMed:10207080, PubMed:16131492, PubMed:9748269). Represses transcription of SMAD7 which enhances TGF-beta signaling (By similarity). Induces apoptosis (By similarity).
Cellular Location	Nucleus.
Tissue Location	Ubiquitous. Higher expression in erythroid cells.

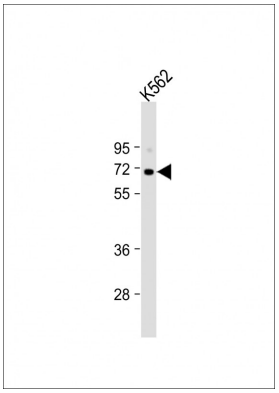
Background

TIEG2 is a transcription factor. The protein activates the epsilon- and gamma-globin gene promoters and, to a much lower degree, the beta-globin gene and represses promoters containing SP1-like binding inhibiting cell growth. It represses transcription of SMAD7 which enhances TGF-beta signaling. It induces apoptosis.

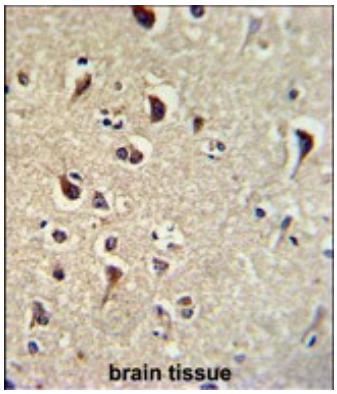
References

Kuroda,E., Endocr. J. 56 (2), 275-286 (2009)
Ma,L., J. Clin. Endocrinol. Metab. 93 (9), 3644-3649 (2008)

Images

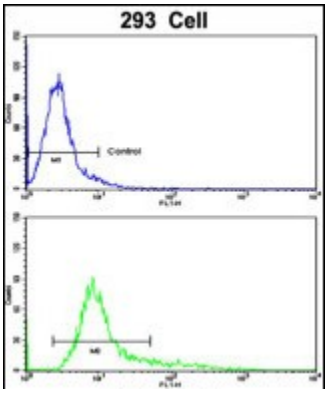


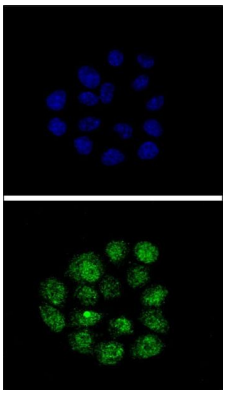
Anti-TIEG2 Antibody (N-term) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue reacted with TIEG2 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of 293 cells using TIEG2 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.





Confocal immunofluorescent analysis of TIEG2 Antibody (N-term)(Cat. #AP6625a) with Hela cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).