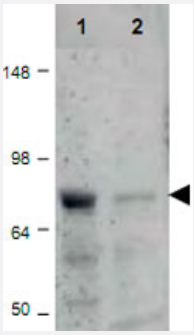
CTCFL polyclonal antibody

Catalog # PAB9983 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot using CTCFL polyclonal antibody (Cat # PAB9983) shows detection of a predominant band corresponding to BORIS in human tissue lysates (arrowhead).
Lane 1 contains lysate from human prostate tissue.
Lane 2 contains lysate from human spleen tissue.
Apredominant band at ~75 KDa is observed.
Molecular weight estimation was made by comparison to prestained MW markers as indicated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CTCFL.
Immunogen	A synthetic peptide corresponding to amino acids 9-26 of human CTCFL.
Host	Rabbit
Reactivity	Chimpanzee, Human
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:200-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Tissue lysate)

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Gene Info — CTCFL

Entrez GeneID	140690
Protein Accession#	Q8NI51;AAM28645
Gene Name	CTCFL
Gene Alias	BORIS, CTCF-T, MGC163358, dJ579F20.2
Gene Description	CCCTC-binding factor (zinc finger protein)-like
Omim ID	607022
Gene Ontology	Hyperlink
Gene Summary	CCCTC-binding factor (CTCF), an 11-zinc-finger factor involved in gene regulation, utilizes different zinc fingers to bind varying DNA target sites. CTCF forms methylation-sensitive insulators that regulate X-chromosome inactivation. This gene is a paralog of CTCF and appears to be expressed primarily in the cytoplasm of spermatocytes, unlike CTCF which is expressed primarily in the nucleus of somatic cells. CTCF and the protein encoded by this gene are normally expressed in a mutually exclusive pattern that correlates with resetting of methylation marks during male germ cell differentiation. [provided by RefSeq
Other Designations	BORIS-like protein|CCCTC-binding factor-like protein|OTTHUMP00000174287|brother of the regulator of imprinted sites

Publication Reference

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- Screening of organoids derived from patients with breast cancer implicates the repressor NCOR2 in cytotoxic stress response and antitumor immunity.

  Kelvin K Tsai, Shenq-Shyang Huang, Jason J Northey, Wen-Ying Liao, Chung-Chi Hsu, Li-Hsin Cheng, Michael E Werner, Chih-Pin Chuu, Chandrima Chatterjee, Jonathon N Lakins, Valerie M Weaver

  Nat Cancer 2022 6; 3(6):734-752.

- The novel BORIS + CTCF gene family is uniquely involved in the epigenetics of normal biology and cancer.

  Klenova EM, Morse HC 3rd, Ohlsson R, Lobanenkov VV.

  Seminars in Cancer Biology 2002 Oct; 12(5):399.

- BORIS, a novel male germ-line-specific protein associated with epigenetic reprogramming events, shares the same 11-zinc-finger domain with CTCF, the insulator protein involved in reading imprinting marks in the soma.

  Loukinov DI, Pugacheva E, Vatolin S, Pack SD, Moon H, Chernukhin I, Mannan P, Larsson E, Kanduri C, Vostrov AA, Cui H, Niemitz EL, Rasko JE, Docquier FM, Kistler M, Breen JJ, Zhuang Z, Quitschke WW, Renkawitz R, Klenova EM, Feinberg AP, Ohlsson R, Morse HC 3rd, Lobanenkov VV.

  PNAS 2002 May; 99(10):6806.

  Application: EMSA, IS, Yeast, Mouse, Pichia pastoris, Testis

Disease

- Silver-Russell Syndrome

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