

Product datasheet

Anti-Tet2 antibody ab99432

1 图像

概述

产品名称	Anti-Tet2抗体
描述	山羊多克隆抗体to Tet2
宿主	Goat
特异性	This antibody is expected to recognize both reported isoforms of Human TET2(NP_001120680.1; NP_060098.3).
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Human 预测可用于: Mouse, Dog
免疫原	Synthetic peptide corresponding to internal amino acids 761-775 (C- PHPQSNNDQREGSF) of both isoforms of Human TET2 (NP_001120680.1; NP_060098.3). Run BLAST with Run BLAST with
阳性对照	Human brain lysates (Amygdala and Hippocampus) Human spleen.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
纯度	Immunogen affinity purified
纯化说明	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab99432** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab 评论	说明
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IHC-P Use a concentration of 2 - 6 µg/ml. In paraffin-embedded Human Spleen shows nuclear staining in select splenocytes. Never incubate primary overnight. We know a lot of customers get non-specific background after overnight incubations. We always recommend to incubate for 1h at room temp. This allows a higher signal/background ratio at better controlled conditions.

WB Use a concentration of 0.3 µg/ml. Predicted molecular weight: 130 kDa. Preliminary experiments gave an approx 80kDa band in Human Brain (Amygdala and Hippocampus) lysates after 0.3 µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 130kDa according to NP_060098.3. The 80kDa band was successfully blocked by incubation with the immunizing peptide. Never incubate primary overnight. We know a lot of customers get non-specific background after overnight incubations. We always recommend to incubate for 1h at room temp. This allows a higher signal/background ratio at better controlled conditions.

靶标

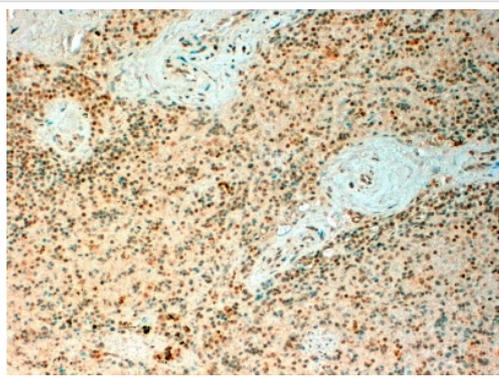
功能	Catalyzes the conversion of methylcytosine (5mC) to 5-hydroxymethylcytosine (hmC). Plays an important role in myelopoiesis. The clear function of 5-hydroxymethylcytosine (hmC) is still unclear but it may influence chromatin structure and recruit specific factors or may constitute an intermediate component in cytosine demethylation.
组织特异性	Broadly expressed. Highly expressed in hematopoietic cells; highest expression observed in granulocytes. Expression is reduced in granulocytes from peripheral blood of patients affected by myelodysplastic syndromes.
疾病相关	<p>Note=TET2 is frequently mutated in myeloproliferative disorders (MPD). These constitute a heterogeneous group of disorders, also known as myeloproliferative diseases or myeloproliferative neoplasms (MPN), characterized by cellular proliferation of one or more hematologic cell lines in the peripheral blood, distinct from acute leukemia. Included diseases are: essential thrombocythemia, polycythemia vera, primary myelofibrosis (chronic idiopathic myelofibrosis). Bone marrow samples from patients display uniformly low levels of hmC in genomic DNA compared to bone marrow samples from healthy controls as well as hypomethylation relative to controls at the majority of differentially methylated CpG sites. Defects in TET2 are a cause of polycythemia vera (PV) [MIM:263300]. A myeloproliferative disorder characterized by abnormal proliferation of all hematopoietic bone marrow elements, erythroid hyperplasia, an absolute increase in total blood volume, but also by myeloid leukocytosis, thrombocytosis and splenomegaly.</p> <p>Note=TET2 is frequently mutated in systemic mastocytosis; also known as systemic mast cell disease. A condition with features in common with myeloproliferative diseases. It is a clonal disorder of the mast cell and its precursor cells. The clinical symptoms and signs of systemic mastocytosis are due to accumulation of clonally derived mast cells in different tissues, including bone marrow, skin, the gastrointestinal tract, the liver, and the spleen.</p> <p>Note=TET2 is frequently mutated in myelodysplastic syndromes, a heterogeneous group of closely related clonal hematopoietic disorders. All are characterized by a hypercellular or hypocellular bone marrow with impaired morphology and maturation, dysplasia of the myeloid, megakaryocytic and/or erythroid lineages, and peripheral blood cytopenias resulting from ineffective blood cell production. Included diseases are: refractory anemia (RA), refractory anemia</p>

with ringed sideroblasts (RARS), refractory anemia with excess blasts (RAEB), refractory cytopenia with multilineage dysplasia and ringed sideroblasts (RCMD-RS). Chronic myelomonocytic leukemia (CMML) is a myelodysplastic/myeloproliferative disease. Myelodysplastic syndromes are considered a premalignant condition in a subgroup of patients that often progresses to acute myeloid leukemia (AML). Bone marrow samples from patients display uniformly low levels of hmC in genomic DNA compared to bone marrow samples from healthy controls as well as hypomethylation relative to controls at the majority of differentially methylated CpG sites.

序列相似性

Belongs to the TET family.

图片



Immunohistochemical staining of paraffin embedded human spleen with ab99432 at 4 µg/mL. Heat mediated antigen retrieval was performed with citrate buffer, pH 6.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tet2 antibody (ab99432)

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