

Recombinant human Caspase-10/CASP-10 protein ab52080

描述

产品名称	重组人Caspase-10/CASP-10蛋白
生物活性	SPECIFIC ACTIVITY: 8000 units/mg One unit of the recombinant caspase-10/a (CASP-10) is the enzyme activity that cleaves 1 nmol of the caspase substrate IETD-pNA (pNA: pnitroaniline) per hour at 37°C.
纯度	> 90 % SDS-PAGE.
表达系统	Escherichia coli
Accession	<u>Q92851</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human

技术指标

Our **Abpromise guarantee** covers the use of **ab52080** in the following tested applications.

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

应用	SDS-PAGE Functional Studies
形式	Lyophilized
补充说明	This product is manufactured by BioVision, an Abcam company and was previously called 1090A Caspase-10/a, human recombinant. 1090A-100 is the same size as the 100 unit size of ab52080.

制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Constituents: PBS, 15% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
复溶	Reconstitute to 1 unit per µl in PBS containing 15% glycerol. Following reconstitution in PBS and 15% glycerol, the enzyme should be aliquoted and immediately stored at -70°C. Avoid multiple

freeze/thaw cycles as activity might decrease.

常规信息

功能	<p>Involved in the activation cascade of caspases responsible for apoptosis execution. Recruited to both Fas- and TNFR-1 receptors in a FADD dependent manner. May participate in the granzyme B apoptotic pathways. Cleaves and activates caspase-3, -4, -6, -7, -8, and -9. Hydrolyzes the small- molecule substrates, Tyr-Val-Ala-Asp-AMC and Asp-Glu-Val-Asp-AMC.</p> <p>Isoform C is proteolytically inactive.</p>
组织特异性	Detectable in most tissues. Lowest expression is seen in brain, kidney, prostate, testis and colon.
疾病相关	<p>Defects in CASP10 are the cause of autoimmune lymphoproliferative syndrome type 2A (ALPS2A) [MIM:603909]. ALPS2 is characterized by abnormal lymphocyte and dendritic cell homeostasis and immune regulatory defects.</p> <p>Defects in CASP10 are a cause of familial non-Hodgkin lymphoma (NHL) [MIM:605027]. NHL is a cancer that starts in cells of the lymph system, which is part of the body's immune system. NHLs can occur at any age and are often marked by enlarged lymph nodes, fever and weight loss.</p> <p>Defects in CASP10 are a cause of gastric cancer (GASC) [MIM:613659]. A malignant disease which starts in the stomach, can spread to the esophagus or the small intestine, and can extend through the stomach wall to nearby lymph nodes and organs. It also can metastasize to other parts of the body. The term gastric cancer or gastric carcinoma refers to adenocarcinoma of the stomach that accounts for most of all gastric malignant tumors. Two main histologic types are recognized, diffuse type and intestinal type carcinomas. Diffuse tumors are poorly differentiated infiltrating lesions resulting in thickening of the stomach. In contrast, intestinal tumors are usually exophytic, often ulcerating, and associated with intestinal metaplasia of the stomach, most often observed in sporadic disease.</p>
序列相似性	<p>Belongs to the peptidase C14A family.</p> <p>Contains 2 DED (death effector) domains.</p>
翻译后修饰	<p>Cleavage by granzyme B and autocatalytic activity generate the two active subunits.</p> <p>Phosphorylated upon DNA damage, probably by ATM or ATR.</p>

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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