

Caspase-5 Activity Assay kit

Apoptosis belongs to programmed cell death, which can be found in various organs and cells, and plays a very important role in regulating the homeostasis of cells and organs during normal development, physiology, and pathology. Caspase (Cysteine-requiring Aspartate Protease) is a family of proteases involved in the process of apoptosis, containing more than 10 members. The molecular weight of Caspase-5 is 47.7kD, which has 51% homology with ICE, and can induce apoptosis when overexpressed. The assay principle of the kit is based on the specific hydrolysis of its polypeptide substrate N-acetyl-Trp-Glu-His-Asp-p-nitroanilide (Ac-WEHD-pNA) by Caspase-5, releasing free nitroaniline pNA, which is yellow. It has a maximum absorption peak at 405 nm, determined by visible spectrophotometry, and the absorbance value corresponds to the hydrolysis activity of Caspase-5. The reaction system is 100 microliters, and the reagents provided by the kit can perform sample determination in addition to the standard curve.

Application: Determination of caspase-5 activity in mammalian tissues and cells.

Catalog No.	520014
Size	20 Assays
Product Category	Cell Detection
Kit Components	1. Lysis buffer 2. Reaction buffer 3. Ac-WEHD-pNA substrate [2mM] 4. pNA standard [10mM]
Storage/Stability	-20°C/6 months
Shipping	Gel Packs