

Caspase-4 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. Caspase-4 can interact with Apaf-1 and participate in the activation of Caspase-3 caused by cytochrome c, and can also interact with caspase-14. The assay principle of the kit is based on the specific hydrolysis of its polypeptide substrate Ac-LEVD-pNA by Caspase-4 to release free nitroaniline pNA, which is yellow with a maximum absorption peak at 405 nm, and is determined by visible light spectrophotometry. Its absorbance value corresponds to the hydrolytic activity of Caspase-4. 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-4 activity in mammalian tissues and cells.

Catalog No.	520013
Size	20 Assays
Product Category	Cell Detection
Kit Components	1. Lysis buffer 2. Reaction buffer 3. Ac-LEVD-pNA substrate [2mM] 4. pNA standard [10mM]
Storage/Stability	-20°C/6 months
Shipping	Gel Packs