

Allgemeine Informationen

Katalog-Nr.: 29958-1-AP	GenBank-Zugangsnummer: BC145651	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 150ul, Konzentration: 450 µg/ml von Nanodrop;	GeneID (NCBI): 214763	Empfohlene Verdünnungen: WB 1:500-1:1000 IHC 1:50-1:500
Wirt: Kaninchen	Vollständiger Name: RIKEN cDNA E330016A19 gene	
Isotyp: IgG	Berechnete Masse: 58 kDa	
Immunogen Katalognummer: AG31677	Beobachtete Masse: 70 kDa	

Anwendungen

Geprüfte Anwendungen: IHC, WB, ELISA	Positivkontrollen:
Getestete Reaktivität: Human, Maus	WB : HT-29-Zellen, A549-Zellen, C2C12-Zellen, HeLa-Zellen, MCF-7-Zellen, Neuro-2a-Zellen, NIH/3T3-Zellen, THP-1-Zellen, U2OS-Zellen
Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.	IHC : humanes Plazenta-Gewebe, humanes Lungengewebe

Hintergrundinformationen

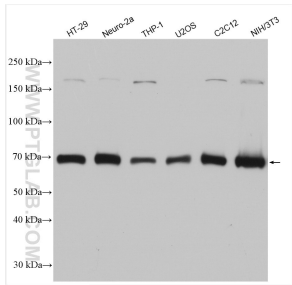
cGAS (cyclic GMP-AMP synthase) is a cytosolic DNA sensor that serves to mount an immune response against the invasion of microbial pathogens such as viruses. cGAS normally resides as an inactive protein in the cell. Upon binding to DNA, cGAS undergoes a conformational change to an active state and produces the second messenger cyclic GMP-AMP (cGAMP) from ATP and GTP, which is subsequently detected by the cyclic-dinucleotide sensor STING, an ~40 kDa dimeric transmembrane protein at the endoplasmic reticulum (ER). cGAS not only is found in the cytosol but has a multifaceted cellular distribution that involves localization at the cell membrane and in the nucleus (PMID: 32424334). The calculated molecular weight of cGAS is 58 kDa. With post-translational modification, the MW of cGAS will be migrated to 70 kDa.

Lagerung

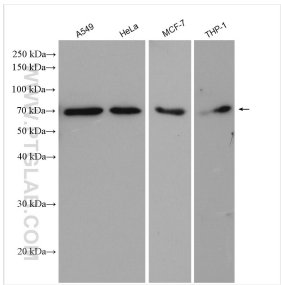
Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

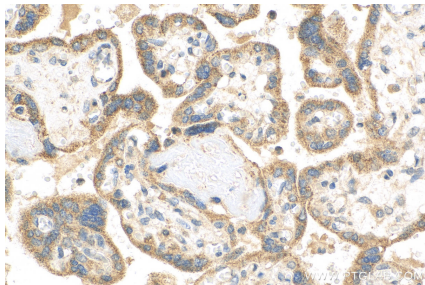
Ausgewählte Validierungsdaten



Various lysates were subjected to SDS PAGE followed by western blot with 29958-1-AP (cGAS antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



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Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 29958-1-AP (cGAS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).