

Datasheet for ABIN7600586
anti-C6orf150 antibody (AA 208-522)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	C6orf150
Binding Specificity:	AA 208-522
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This C6orf150 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-CGAS Antibody Picoband®
Immunogen:	E.coli-derived human CGAS recombinant protein (Position: L208-F522).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CGAS Antibody Picoband® (ABIN7600586). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	C6orf150
Alternative Name:	CGAS (C6orf150 Products)
Background:	<p>Synonyms: Lymphocyte antigen 6A-2/6E-1, Ly-6A.2/Ly-6E.1, Stem cell antigen 1, SCA-1, T-cell-activating protein, TAP, Ly6a, Ly6,</p> <p>Tissue Specificity: Widely expressed. .</p> <p>Background: cGAS (cyclic GMP-AMP synthase), also known as MB21D1 (Mab-21 domain containing 1), h-cGAS or C6orf150, is a 522 amino acid cytoplasmic nucleotidyltransferase that catalyzes the formation of cyclic GMP-AMP (cGAMP) from ATP and GTP. cGAS is suggested to have antiviral activity by acting as a key cytosolic DNA sensor. cGAS binds to cytosolic DNA, which leads to cGAMP synthesis and activation of TMEM173, thereby trigger type-I interferon production. Expressed in monocytic cell line THP1, cGAS exists as two alternatively spliced isoforms and is encoded by a gene located on human chromosome 6q13.</p>
Molecular Weight:	62 kDa
Gene ID:	115004
UniProt:	Q8N884
Pathways:	Activation of Innate immune Response

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Ablasser, A., Hemmerling, I., Schmid-Burgk, J. L., Behrendt, R., Roers, A., Hornung, V. TREX1 deficiency triggers cell-autonomous immunity in a cGAS-dependent manner. J. Immun. 192: 5993-5997, 2014. 2. Ablasser, A., Schmid-Burgk, J. L., Hemmerling, I., Horvath, G. L., Schmidt, T., Latz, E., Hornung, V. Cell intrinsic immunity spreads to bystander cells via the intercellular transfer of cGAMP. Nature 503: 530-534, 2013. 3. Andreeva, L., Hiller, B., Kostrewa, D., Lassig, C., de Oliveira Mann, C. C., Drexler, D. J., Maiser, A., Gaidt, M., Leonhardt, H., Hornung, V., Hopfner, K.-P. cGAS senses long and HMGB/TFAM-bound U-turn DNA by forming protein-DNA ladders Nature 549: 394-398, 2017.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.