

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RUNX2/CBFA1 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) RUNX1 and rhRUNX3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RUNX2/CBFA1 isoform 2 Lys219-Tyr404 Accession # Q13950
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Chromatin Immunoprecipitation (ChIP)	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Core Binding Factor A1 (CBFA1; also called AML-3, PEBP-2αA, OSF-2, RUNX2) is a 56 kDa DNA-binding protein that belongs to the Runt-related family of transcription factors. It is synthesized as a 521 amino acid (aa) protein with multiple domains. From the N-terminus, there is a 19 aa activation domain (AD1), a 41 aa glutamine/alanine (Q/A) repeat segment (AD2), a 128 aa Runt/DNA-binding region, a 9 aa NLS and a 285 aa ProSerThr (PST)-rich sequence that is needed for gene activation. Two isoforms exist, one with a truncated AD1 domain and another with a 22 aa deletion in the AD3 section of PST-rich sequence. Human CBFA1 is 98% aa identical to mouse CBFA1.

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