

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat TRRAP in Western blots. Detects recombinant human TRRAP in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TRRAP Asn3610-Leu3859, predicted Accession # Q9Y4A5
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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

TRRAP (Transformation/transcription domain-associated protein; also PAF350/400 and STAF40) is a 400-450 kDa member of the TRA1 subfamily, PI3/PI4 kinase family, ATM superfamily of molecules. It is a ubiquitously expressed nuclear protein that functions as a promoter of gene transcription. In particular, the activity of the E2F transcription factor family is regulated by the degree of histone acetylation. Deacetylation inhibits E2F-mediated transcription, while acetylation promotes gene transcription. TRRAP promotes histone acetylation by serving as a positive modulator/cofactor for GCN5 acetyltransferase activity. TRRAP also acts independently of GCN5. It serves as a recruiter for Skp1, a ubiquitin ligase that ubiquitates chromatin-bound β -catenin, leading to a downregulation of Wnt-signaling activity. Human TRRAP is 3859 amino acids (aa) in length. It contains one Pro-rich region (aa 485-526), an NLS (aa 2047-2062), two FAT domains (aa 2704-3275 and 3827-3859) and a nonenzymatic PI3/PI4 kinase domain (aa 3528-3826). There are multiple potential isoform variants. They show various combinations of a deletion involving aa 1493-1510, an Ala substitution for aa 3001-3012, a 119 aa substitution for aa 3784-3859, and an 18 aa insertion after Asp3287. Over aa 3610-3859, human TRRAP shares 99% aa identity with mouse TRRAP.

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