

Anti-TDRD3 [Fab-8-1] Standard Size Ab00408-1.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This full-length, chimeric mouse antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1, Fc Silent™, Kappa

Clone Number: Fab-8-1

Alternative Name(s) of Target: Tudor-domain-containing protein 3

UniProt Accession Number of Target Protein: Q9H7E2

Published Application(s): ELISA

Published Species Reactivity: Human

Immunogen: Human TDRD3.

Specificity: Binds to human TDRD3 with a K_d-value of 1 nM. Specificity checked by ELISA - it show no binding to any of 13 non-cognate antigens.

Application Notes: This antibody binds to the tudor domain of TDRD3, a nuclear coactivator that recognizes and binds asymmetric dimethylation on the core histone tails associated with transcriptional activation such as H4R3me2 or H3R17me2. In the cytoplasm, it is suggested to be involved in the assembly and disassembly of mRNA stress granules. Interesting feature about this antibody: The CDR-H3 plays virtually no role in antigen recognition.

Antibody First Published in: Persson et al. Diversity is not required for antigen recognition by synthetic antibodies. Journal of Molecular Biology 2013; 425(4):803-811 [PMID:23219464](#)

Note on publication: Describes the generation of several synthetic antibodies from phage display and subsequent crystallisation with TDRD3.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.