

Product datasheet for **TA386102**

Edar Mouse Monoclonal Antibody [Clone ID: EDAR12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EDAR12
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	EDAR12 was prepared by immunizing female OVE1B mice (with the Edar gene deleted) subcutaneously with mouse EDAR-Fc and positive hybridoma clones were screened for binding mEDAR by ELISA.

Specificity: EDAR12 recognises and binds to CRD1 of the extracellular domain of mouse EDAR. EDAR3 cross-reacts with EDAR derived from human, dog, rat and chicken when EDAR is fused to the glycosylphosphatidylinositol anchor of TRAILR3. EDAR is the receptor for the TNF family ligand EDA1, which is a type II transmembrane protein possessing a collagen-like domain and a C-terminal TNF-homology domain. EDAR is important for the correct development of skin appendages including hair, teeth and eccrine sweat glands. LoF mutations in the Eda gene is known to cause XLHED (X-linked hypohidrotic ectodermal dysplasia), and results in abnormal development.

EDAR12 can be used in surrogate reporter assay in which Fas-sensitive cells were transfected with a construct formed by fusing the ectodomain of mouse or human EDAR to the intracellular domain of Fas. Binding of EDAR12 resulted in the induction of apoptosis in these cells, confirming the agonistic activity of the antibody. (EC50 (dose required to kill half of EDAR:Fas-expressing Jurkat cells) hEDAR:Fas ~ 5 ng/ml; EC50 mEDAR:Fas ~ 10 ng/ml - both were less active than EDA1-Fc). Tail-hair formation was also rescued after administration of EDAR3 to newborn EDA-deficient Tabby mice, with 0.35 mg/kg required for half-maximal tail-hair reversion. EDAR123 can also be used in ELISA and as a Fab fragment (generated by ficin digestion) in SPR experiments. EDAR can also be recognized by EDAR12 under both reducing (+DTT) and non-reducing conditions.

Formulation: PBS with 0.02% Proclin 300.



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Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	ectodysplasin-A receptor
Database Link:	Entrez Gene 13608 Mouse Q9R187
Synonyms:	DL; ED1R; ED3; ED5; EDA-A1R; EDA1R; EDA3; FLJ94390; HRM1