

# Product Datasheet

## EDAR Antibody (EDAR12) - Chimeric - Azide and BSA Free NBP2-81103-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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**NBP2-81103-0.2mg**

EDAR Antibody (EDAR12) - Chimeric - Azide and BSA Free

| Product Information |  |
|---------------------|--|
| Unit Size           | 0.2 mg   |
| Concentration       | 1 mg/ml  |
| Storage             | Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C. |
| Clonality           | Monoclonal   |
| Clone               | EDAR12   |
| Preservative        | 0.02% Proclin 300  |
| Isotype             | IgG Kappa  |
| Purity              | Protein A purified   |
| Buffer              | PBS  |

| Product Description     |  |
|-------------------------|--|
| Description             | Novus Biologicals Rabbit EDAR Antibody (EDAR12) - Chimeric - Azide and BSA Free (NBP2-81103) is a recombinant monoclonal antibody validated for use in WB, ELISA and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.   |
| Host                    | Rabbit   |
| Gene ID                 | 10913  |
| Gene Symbol             | EDAR   |
| Species                 | Human, Mouse, Rat, Canine, Chicken   |
| Specificity/Sensitivity | 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. |
| Immunogen               | EDAR12 was prepared by immunixizing female OVE1B mice (with the Edar gene deleted) subcutaneously with mouse EDAR-Fc and positive hybridoma clones were screened for binding mEDAR by ELISA.   |

| Product Application Details |   |
|-----------------------------|---|
| Applications                | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Block/Neutralize, Surface Plasmon Resonance |
| Recommended Dilutions       | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Surface Plasmon Resonance, Block/Neutralize |



**Application Notes**

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques. 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 DEA1-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.





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### **Products Related to NBP2-81103-0.2mg**

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|               |   |
|---------------|---|
| HAF008        | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160        | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP1-84081PEP | EDAR Recombinant Protein Antigen                    |
| 210-TA-005    | TNF-alpha [Unconjugated]                            |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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