



Cat nr AE00117

Product Datasheet

Recombinant Rabbit Antibody, clone IGHG4/2042R to:

IGHG4, heavy chain constant region of IgG4 (G4m marker)

heavy chain constant region of IgG4; Ig gamma-4 chain C region; Immunoglobulin gamma 4; Immunoglobulin heavy constant gamma 4; IgG4; IgG4-Fc

Cellular localization Plasma membrane, extracellular region or secreted

Official Symbol (Gene) IGHG4
 GenelD 3503
 SwissProt P01861

Confirmed Applications IHC, PA
 Positive controls Tonsil

Aeonian Rating© 90

Purification By Protein A from bioreactor concentrate
 Formulation 200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug)
 1mg IgG/ml in PBS (100ug or contact us for quotation)
 Amount 20ug 100ug
 Isotype Rabbit IgG
 Confirmed species reactivity Human
 Immunogen Recombinant full-length human heavy chain constant region of IgG4 protein
 Epitope Unknown

Storage instructions Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.

Expiration Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.

Warranty This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.

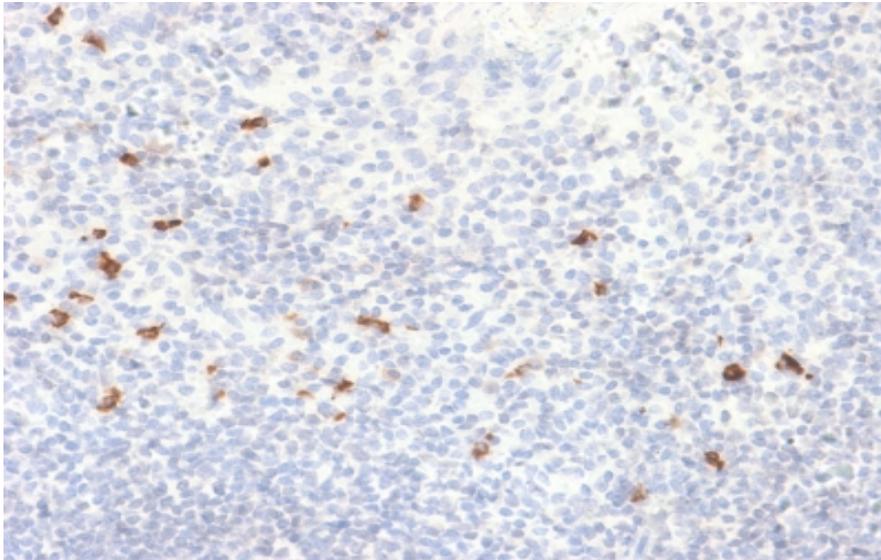
Liability This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance see next pages

Product data:

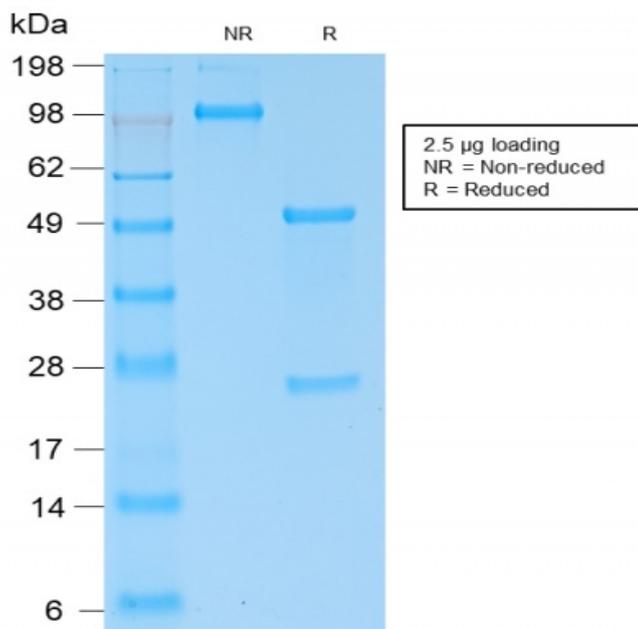
ImmunoHistoChemistry (IHC):

This product was successfully used to stain human tonsil sections. Recommended concentration: 0.3-1ug/ml



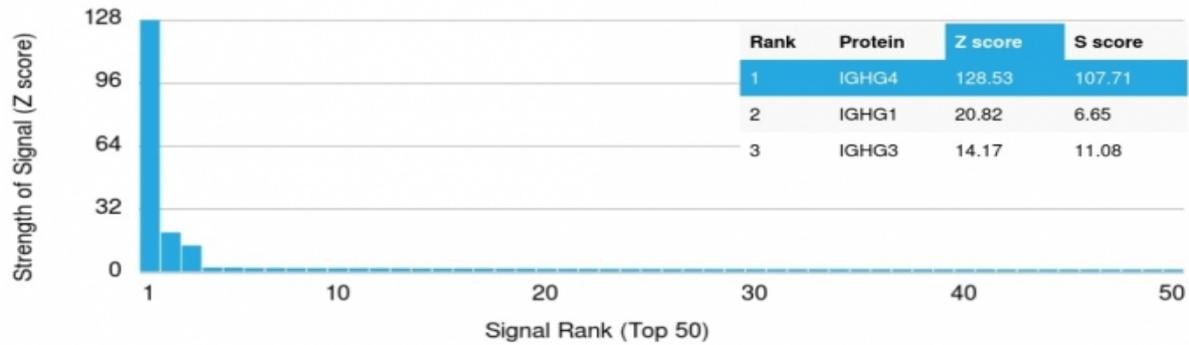
Formaldehyde-fixed, paraffin-embedded human tonsil stained with IgG4 Recombinant Rabbit Antibody AE00117 at 0.5-1ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH9 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

SDS-PAGE Analysis of Purified IgG4 Recombinant Rabbit Antibody AE00117. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00117 under non-reduced and reduced conditions, showing intact IgG at around 100kDa (NR) and intact heavy and light chains at 50kDa and 25kDa resp. (R).

Specificity and selectivity of AE00117 to IgG4 were tested against >19,000 full-length human proteins on a human protein array. H. sapiens expresses the following related other proteins: IGHG1, IGHG2, IGHG3. The proteins IGHG1 and IGHG3 were part of the array used and showed an order of magnitude lower cross-reactivity signals.



Cross-reactivity assessment of IGKC Rabbit Recombinant Antibody AE00117 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).