

TLR4 Recombinant Polyclonal Antibody (20HCLC)

Product Details

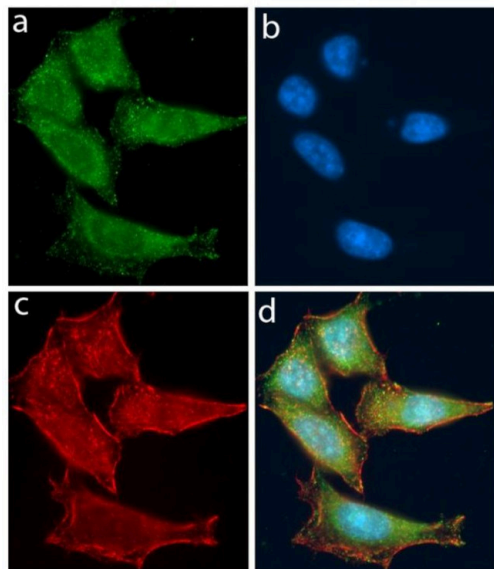
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	20HCLC
Conjugate	Unconjugated
Immunogen	Peptide corresponding to amino acids 816-830 of human Toll-like receptor 4
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532610

Applications	Tested Dilution	Publications
Western Blot (WB)	2-5 µg/mL	-
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunocytochemistry (ICC/IF)	1-3 µg/mL	-

Product Specific Information

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For TLR4 Recombinant Polyclonal Antibody (20HCLC)

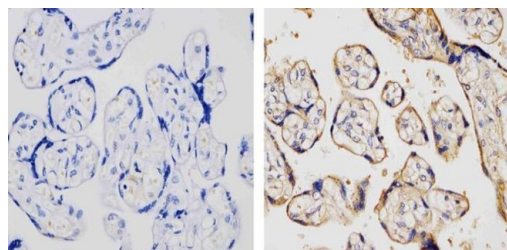


TLR4 Antibody (710185) in ICC/IF

Immunofluorescent analysis of TLR4 in A431 cells using a TLR4 Recombinant Rabbit Polyclonal Antibody (Product # 710185) followed by detection using an Alexa Fluor 488-conjugated Goat anti-Rabbit secondary antibody (green) (Image A). Nuclei were stained using DAPI (Image B) and actin stained with Alexa Fluor 594 phalloidin (red) (image C). Image D is a composite image showing cytoplasmic localization of TLR4.

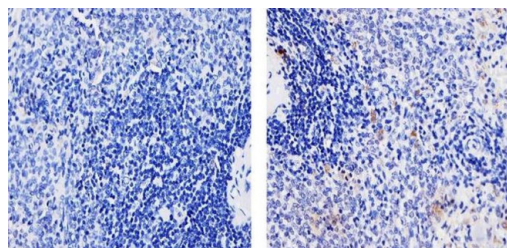
TLR4 Antibody (710185) in IHC (P)

Immunohistochemistry analysis of TLR4 (C-TERM) showing staining in the membrane and weak staining in the cytoplasm of paraffin-embedded human placenta tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a TLR4 (C-TERM) Recombinant Rabbit Polyclonal Antibody (Product # 710185) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



TLR4 Antibody (710185) in IHC (P)

Immunohistochemistry analysis of TLR4 (C-TERM) showing staining in the cytoplasm of paraffin-embedded mouse spleen tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a TLR4 (C-TERM) Recombinant Rabbit Polyclonal Antibody (Product # 710185) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Immunohistochemistry (2)

<p>Frontiers in neurology</p> <p>Human Inner Ear Immune Activity: A Super-Resolution Immunohistochemistry Study.</p> <p>"710185 was used in Immunohistochemistry to study the human inner ear and vestibulocochlear nerve."</p> <p>Authors: Liu W,Kämpfe Nordström C,Danckwardt-Lillieström N,Rask-Andersen H</p>	<p>Year 2020</p> <p>Species Human</p> <p>Dilution 1:10</p>
<p>Frontiers in immunology</p> <p>The Human Endolymphatic Sac and Inner Ear Immunity: Macrophage Interaction and Molecular Expression.</p> <p>"710185 was used in Immunohistochemistry-immunofluorescence to characterise endolymphatic sac macrophages using super-resolution structured fluorescence microscopy and speculate on these macrophages' roles in human inner ear defence."</p> <p>Authors: Kämpfe Nordström C,Danckwardt-Lillieström N,Laurell G,Liu W,Rask-Andersen H</p>	<p>Year 2019</p> <p>Species Human</p> <p>Dilution 1:10</p>

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