

Product datasheet for **AM20904PU-N**

IRAK (IRAK1) Mouse Monoclonal Antibody [Clone ID: 3F7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3F7
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA. Immunofluorescence: 10 µg/ml. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot: 1/500 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	IRAK1 (AAH54000, 530 a.a. ~ 693 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Specificity:	This antibody recognizes Interleukin 1 Receptor-Associated Kinase 1 (IRAK1).
Formulation:	PBS, pH 7.2 State: Liquid purified Ig fraction from Ascites.
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 1 receptor associated kinase 1
Database Link:	Entrez Gene 3654 Human P51617



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Background:

IRAK1, an IRAK type protein kinase, is a signal transducer for the immune response Toll-like receptor and interleukin-1 (IL-1) receptor signaling cascades. IRAK1 is recruited to the IL-1 receptor, phosphorylated and progressively degraded in response to IL-1 induction. The protein also has the ability to autophosphorylate. IRAK1 is immediately downstream of the MyD88 adapter protein and immediately upstream of TRAF6. IRAK1 (-/-) mice have impaired responses to interleukin-18. At least two mRNA transcript variants have been identified - 2.0 and 3.6 kb.

Synonyms:

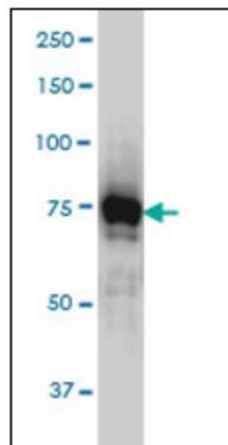
IRAK-1, IRAK

Protein Families:

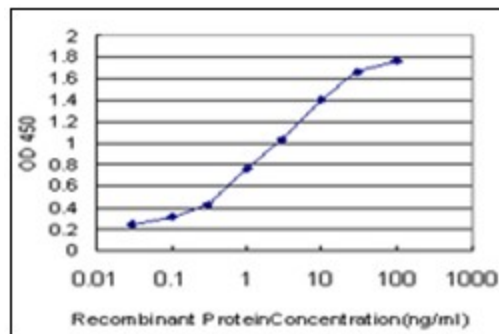
Druggable Genome, Protein Kinase, Transcription Factors

Protein Pathways:

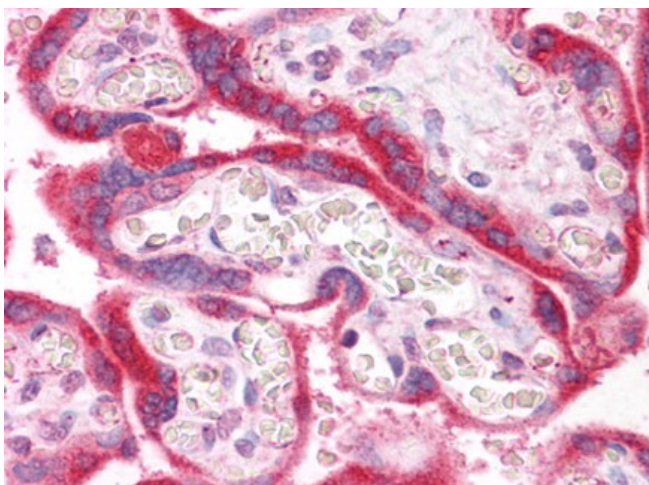
Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway

Product images:


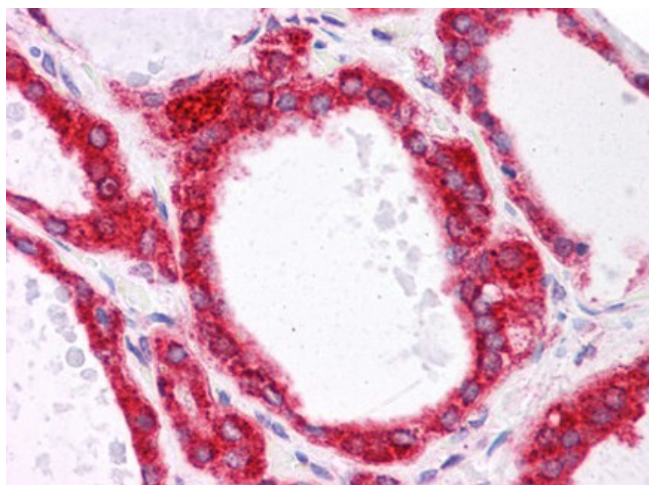
IRAK1 monoclonal antibody clone 3F7 Western Blot analysis of IRAK1 expression in K-562.



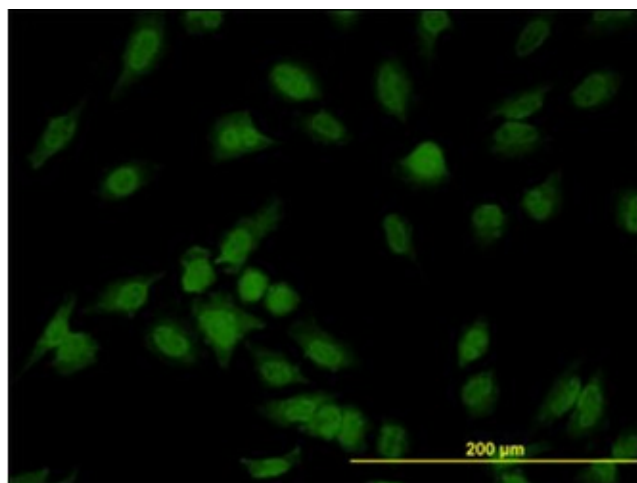
Detection limit for recombinant GST tagged IRAK1 is approximately 0.1 ng/ml as a capture antibody.



Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Thyroid: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of monoclonal antibody to IRAK1 on HeLa cell (antibody concentration 10 ug/ml).