

HSP40 Monoclonal Antibody (G.779.5)

Catalog Number

MA5-14869

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Non-human primate, Rat
Host/Isotope	Rabbit / IgG		
Class	Monoclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:50
Clone	G.779.5	Western Blot (WB)	1:1,000
Immunogen	Synthetic peptide corresponding to Glu223 of human HSP40/Hdj1	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Purification	Affinity chromatography		
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol		
Contains	<0.02% sodium azide		
Storage Conditions	-20°C		

Product specific information

It is not recommended to aliquot this antibody. This antibody is not cross-reactive with other HSPs.

Background/Target Information

TCF-9 (transcription factor 9), also known as C2orf3 (chromosome 2 open reading frame 3), GCF (GC-rich sequence DNA-binding factor) or DNABF, is a 781 amino acid nuclear protein that belongs to the GCF family. Widely expressed, GCF binds the GC-rich sequences of beta-Actin, EGFR and calcium-dependent protease (CANP) promoters. GCF contains multiple phosphoserine and phosphothreonine residues, and two GCF isoforms are produced due to alternative splicing events. GCF is considered a candidate for susceptibility to dyslexia (DYX3) as both genes reside in close proximity on human chromosome 2. Chromosome 2 is the second largest human chromosome and consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome.

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Product Images For HSP40 Monoclonal Antibody (G.779.5)

HSP40 Antibody (MA5-14869) in WB

Western blot was performed using Anti-HSP40 Monoclonal Antibody (G.779.5) (Product # MA5-14869) and a 40 kDa band corresponding to HSP40 was observed across cell lines and tissue extracts tested. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), U-87 MG (Lane 2), MCF-7 (Lane 3), Caco-2 (Lane 4), Hep G2 (Lane 5) and tissue extracts of Mouse Testis (Lane 6) and Rat Testis (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

HSP40 Antibody (MA5-14869)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with HSP40 siRNA and decrease in signal intensity was observed in western blot application using HSP40 Monoclonal Antibody (G.779.5) (Product # MA5-14869). {KD}

HSP40 Antibody (MA5-14869) in IHC (P)

Immunohistochemical analysis of HSP40 in paraffin-embedded human colon carcinoma using a HSP40 monoclonal antibody (Product # MA5-14869).

HSP40 Antibody (MA5-14869) in WB

Knockdown of HSP40 was achieved by transfecting HeLa with HSP40 specific siRNAs (Silencer® select Product # s223882, s7009). Western blot analysis (Fig. a) was performed using whole cell extracts from the HSP40 knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with HSP40 Monoclonal Antibody (G.779.5) (Product # MA5-14869, 1:1000 dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to HSP40.

